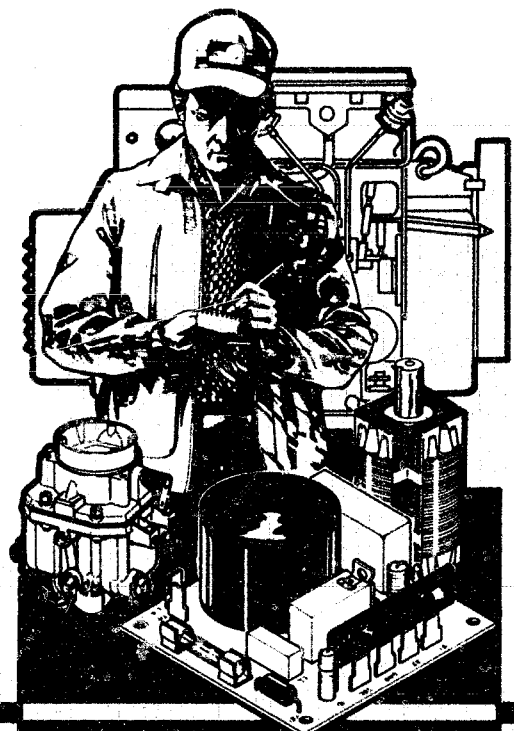


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Onan

Parts Manual

NH GenSet



940-0223
10-90 (Spec A-R)
Replaces 2-89 (Spec A-R)
Printed in U.S.A.

Onan Service Parts

SAFETY PRECAUTIONS

The following symbols are used in Onan manuals to alert users to the potentially dangerous conditions relating to maintenance of the equipment and replacement of parts. Please read and observe.

⚠ DANGER

This symbol warns of immediate hazards which will result in severe personal injury or death.

⚠ WARNING

This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.

⚠ CAUTION

This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.

MODEL IDENTIFICATION

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO., and SERIAL NO. from the Onan nameplate.

For handy reference, insert your nameplate information in the spaces below:

MODEL AND SPEC NO. _____

SERIAL NO. _____

PRODUCT SAFETY PRECAUTIONS

⚠ WARNING

Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.

⚠ WARNING

Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!

⚠ WARNING

Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives, or using solvents take all necessary precautions not to ingest, breathe the fumes, or contact the liquids. Use adequate ventilation and wear protective gloves, masks and clothing!

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Introduction

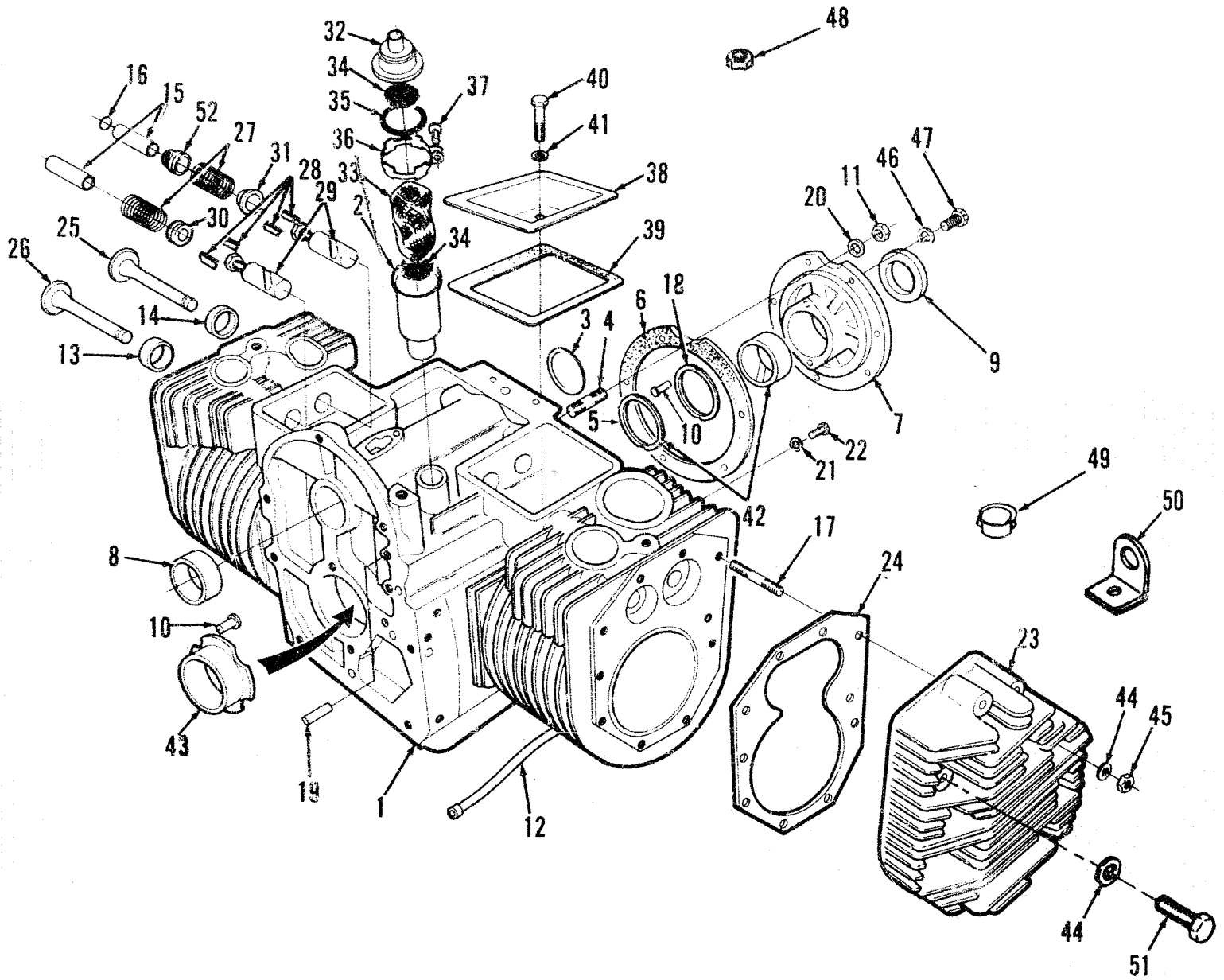
This parts manual applies to the standard generator sets as listed below. Parts are arranged in groups of related items and each illustrated part is identified by a reference number corresponding to the same reference number in the parts list. Parts illustrations are typical. Using the model and specification number from your generator set nameplate, select the Parts Key Number (1, 2, etc., in the last column) that applies to your model and specification number. Unless otherwise mentioned in the description or page heading, parts are interchangeable between models. Throughout this manual, left and right sides are determined by facing the engine end (front) of the set.

Generator Set Data Table

MODEL AND SPECIFICATION NUMBER	ELECTRICAL DATA					
	WATTS	VOLTS	HERTZ	WIRE	PHASE	KEY
5.5NH-538R/*	5,500	110/220	50	4	1	1
5.5NH-FM**/**	5,500	110/220	50	4	1	
5.5NH-53CR/*	5,500	120/240	50	+	1	2
5.5NH-FP**/*	5,500	120/240	50	+	1	
5.5NH-55DR/*	5,500	120/240	50	+	3	3
5.5NH-FS**/*	5,500	120/240	50	+	3	
5.5NH-57R/*	5,500	220/380	50	4	3	4
5.5NH-FT**/*	5,500	220/380	50	4	3	
6.5NH-3CR/*	6,500	120/240	60	+	1	5
6.5NH-FJ**/*	6,500	120/240	60	+	1	
6.5NH-4R/*	6,500	120/208	60	4	3	6
6.5NH-FC**/*	6,500	120/208	60	4	3	
6.5NH-4XR/*	6,500	277/480	60	4	3	7
6.5NH-FG**/*	6,500	277/480	60	4	3	
6.5NH-5CR/*	6,500	120/240	60	4	3	8
6.5NH-FD**/*	6,500	120/240	60	4	3	
6.5NH-FR**	6,500	100/200	50	4	1	9
5.5NH-53CE/*	These are Contractor Models. For replacement parts, refer first to the section for Contractor Models located at the rear of this manual. Parts not in that section refer to the main parts section using Key 2 for 50 hertz sets and Key 5 for 60 hertz sets. When referring to the main parts section, reference to specification letter and voltage also applies to these sets.					
5.5NH-EP**/*						
6.5NH-3CE/*						
6.5NH-EJ**/*						

- * - The diagonal line (/) in the model and specification number separates generator set characteristics from the specification number and letter. The specification number denotes customer requested options or deviations from a standard (1A, 1B, etc.) model. The specification letter advances (A to B, B to C, etc.) with major manufacturing changes.
- ** - Letters are now used in the model to indicate the voltage code and replace the corresponding number(s) and letter(s) designations as listed in the Generator Set Data Table above. (EXAMPLE: 6.5NH-FJ/ was formerly 6.5NH-3CR/) Use of the letters to designate the voltage code began with Spec R models.
- + - These generators have four load wires which are reconnectible for 120 volt, 2 wire service or 240 volt, wire service or 120/240 volt, 3 wire service.

Cylinder Block

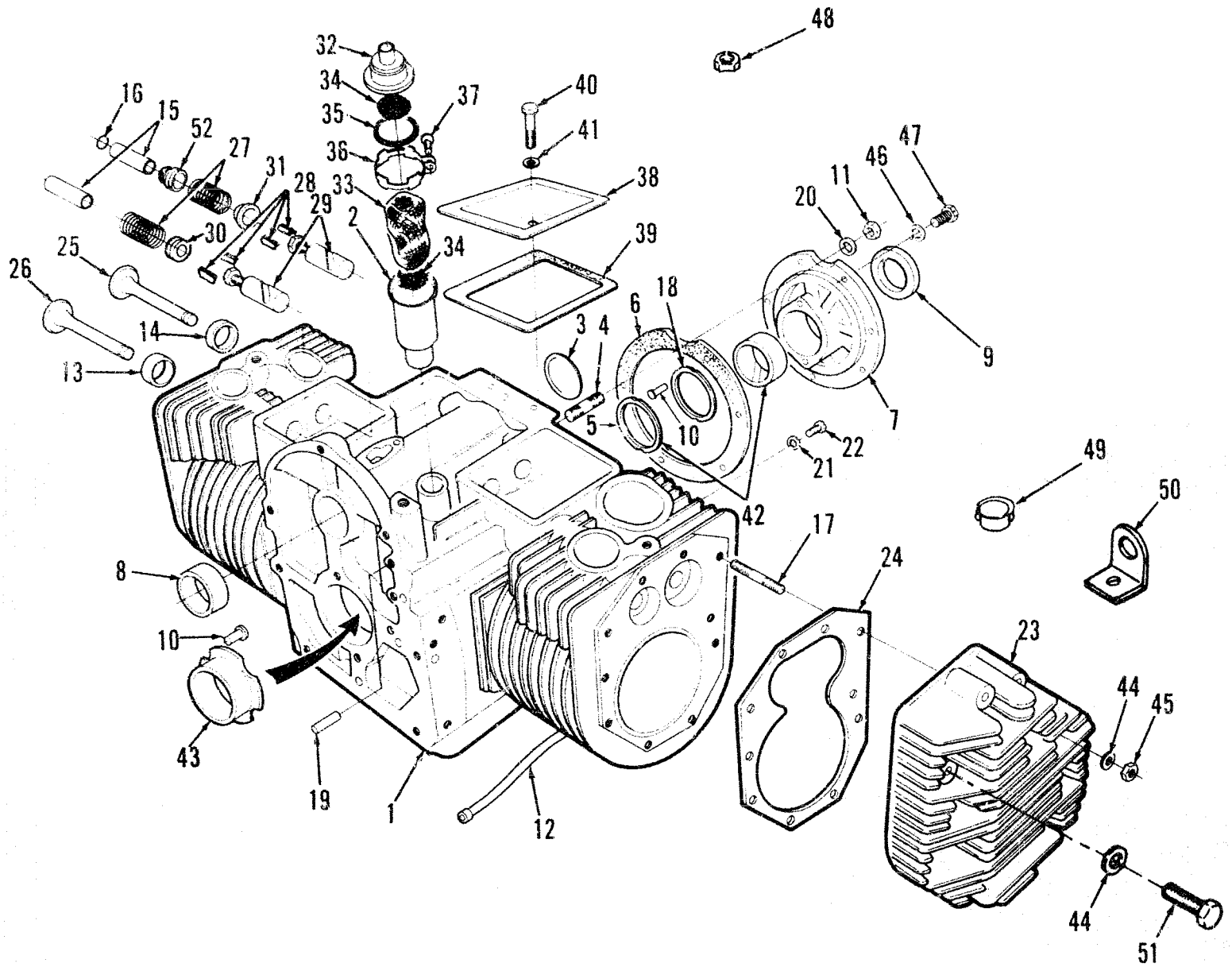


Cylinder Block

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	110-2542	1	Block, Cylinder	17			Stud, Cylinder Head Mounting
	110-1983	1	Spec A through K (Includes Parts Marked *)				Spec A Through K
2	123-0952	1	Begin Spec L (Includes Parts Marked #)	520-0715	8		Top
3	517-0048	1	#Tube, Breather	520-0716	4		3/8" x 2-1/4"
4	520-0736	5	*#Plug, Expansion	520-0717	8		3/8" x 2-5/8"
			*#Stud, Bearing Plate - Spec A				Bottom - 3/8" x 2-1/16"
5	104-0575	2	Through N	520-0837	12		Spec L Through N
			*#Washer, Thrust - Crankshaft	520-0717	8		Top - 3/8" x 2-5/16"
			Bearing (One washer used with				Bottom - 3/8" x 2-1/16"
			rear bearing on sets with	520-0773	12		Begin Spec P
			flange type front bearing)	520-0717	8		Top - 3/8" x 2-9/16"
6	101-0782	1	*#Gasket, Bearing Plate	18	104-0776	1	Bottom - 3/8" x 2-1/16"
7			Plate, Rear Bearing (Includes				*#Shim, Crankshaft Thrust (.005)
			Fins)	19	516-0141	2	(Use as required)
	101-0407	1	* Spec A Through N	20	526-0251	5	#Pin, Gearcase Alignment
	101-0439	1	# Begin Spec L				*#Washer, Flat (Special)
8	101-0405	2	*#Bearing, Camshaft - Front and	21	526-0066	2	(Spec A Through N)
			Rear (Precision)				#Washer, Flat - Copper
9	509-0041	1	*Seal, Crankshaft Oil	22	800-0046	2	(3/8" Screw) (Wet Holes)
10	516-0072	4	*#Pin, Main Bearing Stop				#Screw, Cap - Hex Head
11	104-0091	5	*#Nut, Hex - Special (Spec A	23			(3/8-16 x 1/2") (Wet Holes)
			Through N)				Head, Cylinder
12	120-0680	1	*#Tube, Crankcase Oil		110-1906	1	Spec A Through K
13			Insert, Valve Seat - Exhaust		110-1905	1	Left Side
	110-1716	2	*# Standard				Right Side
	110-1716-02	2	.002" Oversize		110-1912	1	Spec L Through N
	110-1716-05	2	.005" Oversize		110-1913	1	Pressure Cooled Sets
	110-1716-10	2	.010" Oversize				Right Side
	110-1716-25	2	.025" Oversize				Left Side
14			Insert, Valve Seat - Intake		110-1906	1	Vacu-Flo Cooled Sets
			Spec A Through Serial		110-1905	1	Left Side
			Number 415136 During Spec C		110-3549	2	Right Side
	110-1717	2	Standard	24	110-2987	2	Begin Spec P
	110-1717-02	2	.002" Oversize	25	110-1718	2	Gasket, Cylinder Head
	110-1717-05	2	.005" Oversize	26			Valve, Intake
	110-1717-10	2	.010" Oversize		110-1719	2	Valve, Exhaust
	110-1717-25	2	.025" Oversize		110-1761	2	Spec A-P
			Begin Serial Number 415137	27	110-0539	4	Begin Spec R
			During Spec C	28	110-0639	8	Spring, Valve
	110-1933	2	*# Standard	29			Lock, Valve Spring
	110-1933-02	2	.002" Oversize		115-0006	4	Tappet, Valve
	110-1933-05	2	.005" Oversize		115-0006-02	4	Standard
	110-1933-10	2	.010" Oversize		115-0006-05	4	.002" Oversize
	110-1933-25	2	.025" Oversize	30	110-0904	2	.005" Oversize
			Begin Spec R				Rotator, Valve - Exhaust
	110-3655	2	Standard	31			(Gasoline Sets)
	110-3655-02	2	.002" Oversize		110-0893	2	Retainer, Valve Spring
	110-3655-05	2	.005" Oversize		110-0893	4	Gasoline Sets (Intake)
	110-3655-10	2	.010" Oversize	32	123-0954	1	Gas and Gas-Gasoline Sets
	110-3655-25	2	.025" Oversize	33			Cap and Valve, Breather
15			Guide, Valve		123-0865	1	Baffle, Breather Tube
	110-1762	4	Spec A and B		123-1417	1	Spec A Through K
	110-3167	4	*# Begin Spec C - Engines w/o	34			Begin Spec L
			Intake Valve Seals		123-0958	1	Screen, Breather Tube
			Begin Spec R - Engines with		123-0958	2	Spec A Through K
			Intake Valve Seals				Begin Spec L
	110-3167	2	Exhaust				
	110-3168	2	Intake				
16	110-0068	2	#Gasket, Valve Guide - Intake				

* - Parts Included in 110-2542 Cylinder Block.
- Parts Included in 110-1983 Cylinder Block.

Cylinder Block

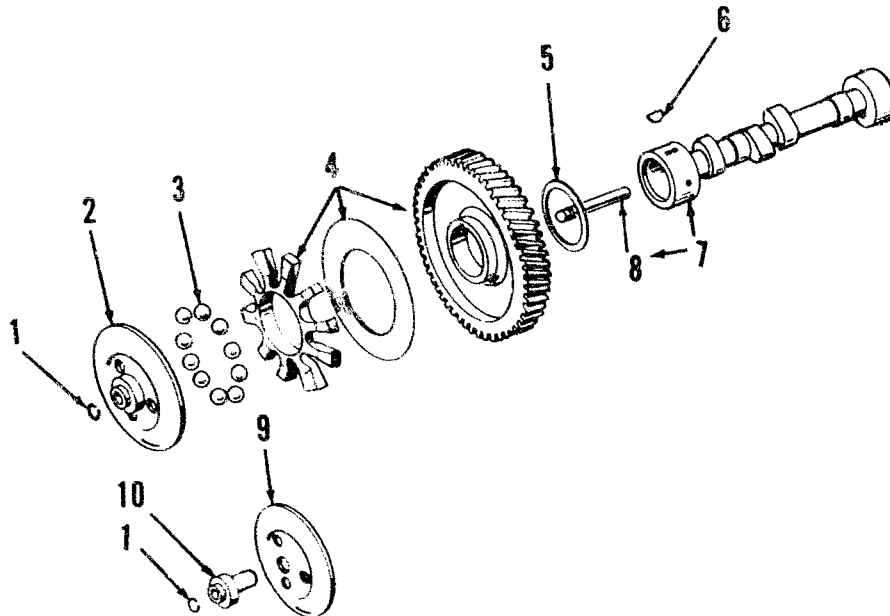


Cylinder Block

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
35	509-0117	1	Seal, "O" Ring - Breather Tube	44	526-0250	20	Washer, Flat (Special)
36	123-0951	1	Clamp, Breather	45	104-0091	20	Nut, Hex (Special)
37	809-0035	1	Screw, Tapping - Round Head (#8 x 3/4")	46			Washer
38	110-1624	2	Cover, Valve		850-0050	5	Lock (3/8") - Begin Spec P
39	110-3575	2	Gasket, Valve Cover		526-0251	5	Flat (3/8" Screw) - Begin Spec R
40	800-0011	2	Screw, Cap - Hex Head (1/4-20 x 2")	47			Screw, Cap - Hex Head (3/8-16 x 1-1/4") Begin Spec P
41	526-0063	2	Washer, Flat - Copper (1/4")		800-0051	5	Flanged Head (3/8-16 x 1-1/8") Begin Spec R
42			Bearing, Crankshaft (Rear) - Includes Crankshaft Bearing Thrust Washer		800-0575	5	Nut, Hex - Valve Cover (Special) Spec A
	101-0450	1	*# Standard	48	115-0025	2	*Insert, Exhaust Port - Spec Through K
	101-0450-02	1	.002" Undersize	49	154-1424	2	Bracket, Lifting - Zinc Plated
	101-0450-10	1	.010" Undersize	50	403-1523-01	2	Screw, Cap - Hex Head (Special) Begin Spec R
	101-0450-20	1	.020" Undersize	51	800-0590	20	Seal, Valve - Intake (Begin Spec R)
	101-0450-30	1	.030" Undersize	52	110-3604	2	
43			Bearing, Crankshaft (Front)				
	101-0432	1	*# Standard				
	101-0432-02	1	.002" Undersize				
	101-0432-10	1	.010" Undersize				
	101-0432-20	1	.020" Undersize				
	101-0432-30	1	.030" Undersize				

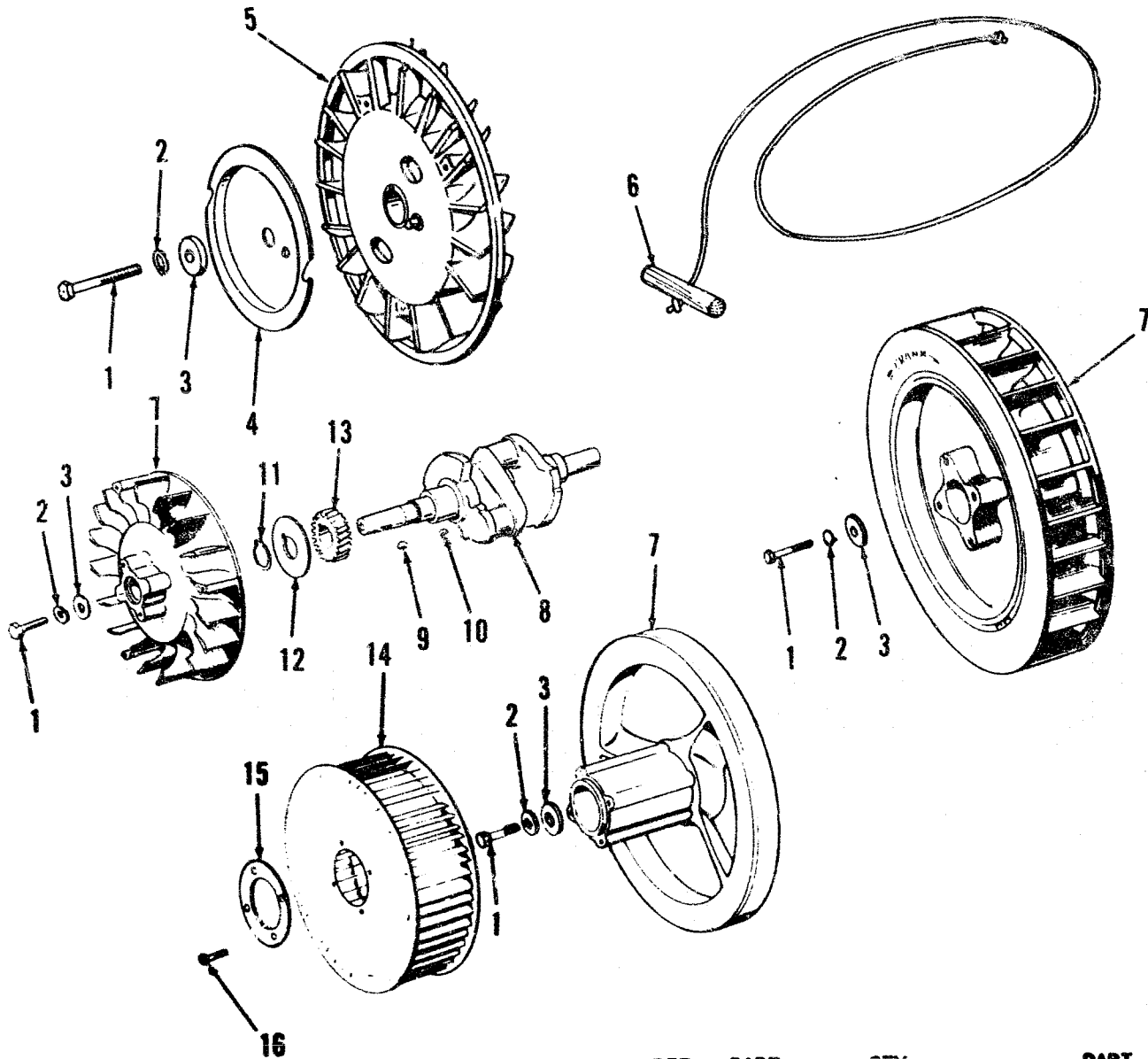
* - Parts Included in 110-2542 Cylinder Block.
- Parts Included in 110-1983 Cylinder Block.

Camshaft



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-0078	1	Ring, Retaining	7		1	Camshaft (Includes Center Pin)
2	150-1116	1	Cup, Governor - Spec A Through K	105-0309	1	Spec A Through K	
3	510-0015	10	Ball, Fly	105-0638	1	Begin Spec L	
4	105-0332	1	Gear, Camshaft (Includes Flyball Spacer and Plate)	8	150-0075	1	Pin, Center
5	105-0541	1	Washer, Thrust	9	150-1520	1	Cup, Governor - Begin Spec L
6	515-0001	1	Key - Camshaft Gear	10	150-1519	1	Hub, Governor Cup - Begin Spec L

Crankshaft



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	104-0170	1	Screw, Cap - Hex Head (Special)	8	104-1315	1	Crankshaft (Includes Keys) Spec A Through K
2	850-0055	1	Washer, Lock - Spring (7/16")		104-1314	1	Begin Spec L
3	526-0017	1	Washer, Flat (7/16" Screw)	9	515-0263	1	Kit, Key - Flywheel
4	192-0308	1	Sheave, Starter Rope - Spec A Through K	10	515-0001	1	Key - Crankshaft Gear
5	134-1903	1	Flywheel - Pressure Cooled Sets - Spec A Through K	11	518-0014	1	Ring, Retaining
6	192-0083	1	Rope, Manual Starting - Spec A Through K	12	104-0043	1	Washer, Gear Retaining
7			Flywheel Pressure Cooled Sets Spec L Through N	13	104-0032	1	Gear, Crankshaft
	134-2456	1	Begin Spec P	14	134-2130	1	Wheel, Blower - Vacu-Flo Cooled Sets - Spec A Through L
	134-4049	1	Begin Spec R	15	134-0911	1	Plate, Blower Wheel - Vacu-Flo Cooled Sets - Spec A Through L
	134-4045	1	Vacu-Flo Cooled Sets Spec A Through N	16	821-0018	4	Screw, Cap - Hex Washer Head (1/4-20 x 5/8") Vacu-Flo Cooled Sets - Spec A Through L
	104-0739	1	Begin Spec P				
	134-4245	1					

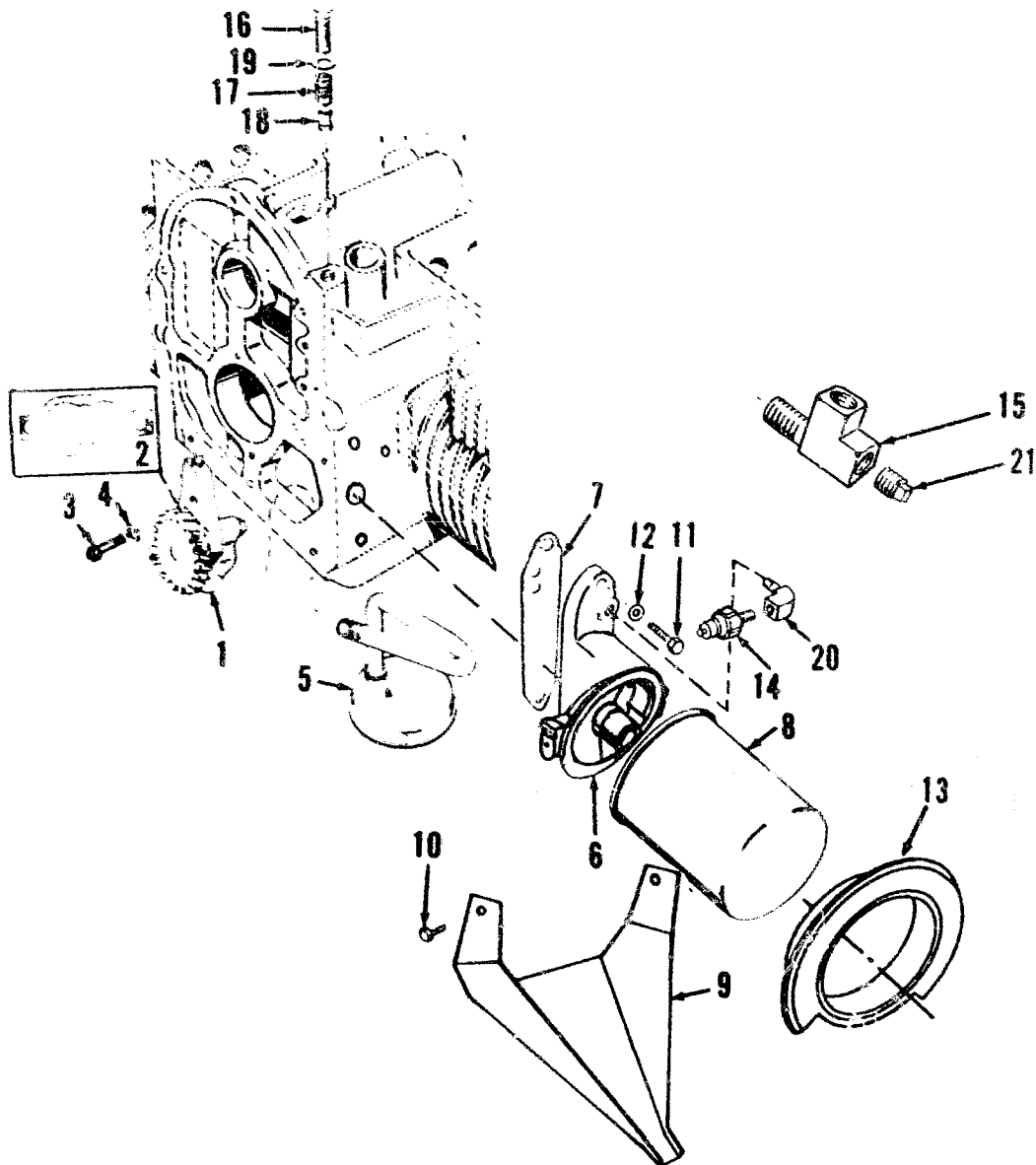
This diagram illustrates the assembly of a mechanical component, likely a pump or motor. The components are numbered as follows:

- 1**: A small cylindrical part, possibly a pin or a small bush, located near the bottom right.
- 2**: Two small cylindrical parts, possibly pins or small bushings, located near the bottom right.
- 3**: A small cylindrical part, possibly a pin or a small bush, located near the bottom right.
- 4**: A long, cylindrical shaft or rod, positioned horizontally in the center.
- 5**: A small, curved, hook-like part, located at the top left.
- 6**: A small, curved, hook-like part, located at the top right.
- 7**: A small, curved, hook-like part, located at the top right.
- 8**: A large, coiled spring or hose, located at the bottom.

The diagram shows the relative positions of these components, with arrows indicating their assembly paths. For example, the spring (8) is shown at the bottom, and the shaft (4) is shown passing through it. The hook-like parts (5, 6, 7) are shown at the top, and the small cylindrical parts (1, 2, 3) are shown near the bottom right.

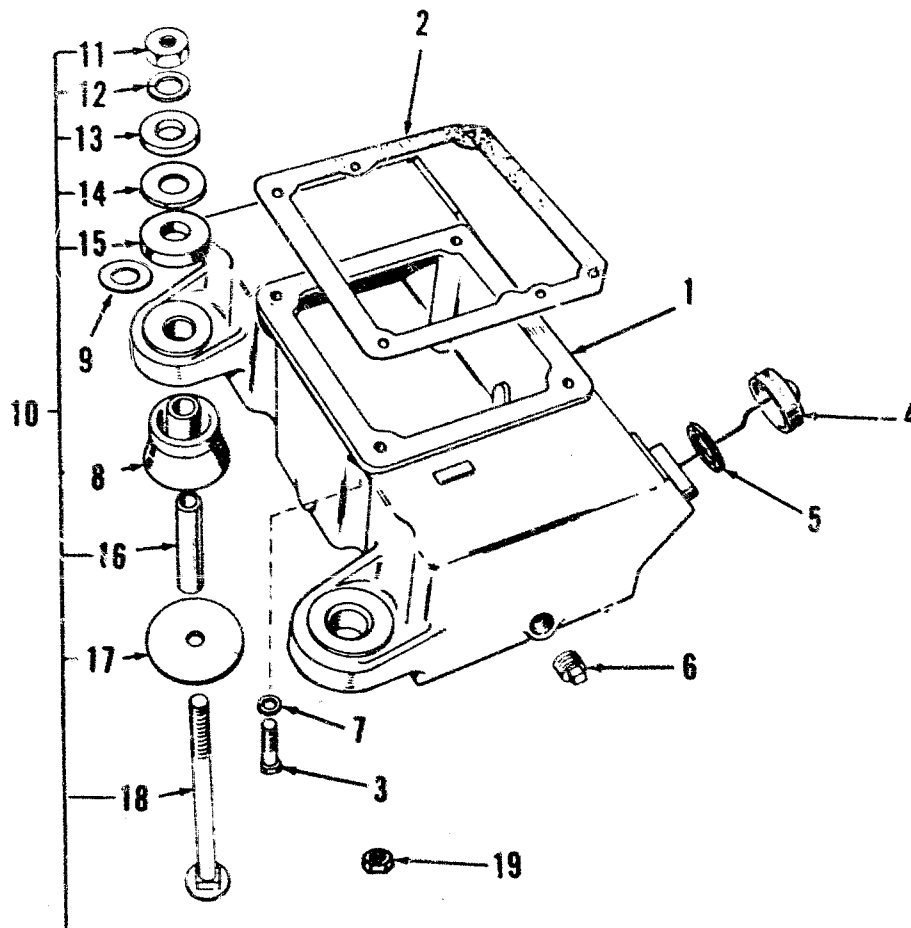
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Piston and Pin (Includes Retaining Rings)	8			Kit, Piston Ring Gasoline Sets
			Spec A Through N				Spec A Through N
	112-0180	2	Standard		113-0165	2	Standard
	112-0180-05	2	.005" Oversize		113-0165-05	2	.005" Oversize
	112-0180-10	2	.010" Oversize		113-0165-10	2	.010" Oversize
	112-0180-20	2	.020" Oversize		113-0165-20	2	.020" Oversize
	112-0180-30	2	.030" Oversize		113-0165-30	2	.030" Oversize
	112-0180-40	2	.040" Oversize		113-0165-40	2	.040" Oversize
			Begin Spec P				Begin Spec P
	112-0228	2	Standard		113-0203	2	Standard
	112-0228-05	2	.005" Oversize		113-0203-05	2	.005" Oversize
	112-0228-10	2	.010" Oversize		113-0203-10	2	.010" Oversize
	112-0228-20	2	.020" Oversize		113-0203-20	2	.020" Oversize
	112-0228-30	2	.030" Oversize		113-0203-30	2	.030" Oversize
	112-0228-40	2	.040" Oversize		113-0203-40	2	.040" Oversize
2			Pin, Piston				Gas-Gasoline and Gas Sets
	112-0112	2	Spec A-N				Spec A Through N
	112-0069	2	Begin Spec P		113-0166	2	Standard
3	518-0294	4	Ring, Retaining - Piston Pin		113-0166-05	2	.005" Oversize
4	114-0203	2	Rod, Connecting		113-0166-10	2	.010" Oversize
5	805-0010	4	Bolt, Place		113-0166-20	2	.020" Oversize
6	114-0036	2	Bushing, Piston Pin		113-0166-30	2	.030" Oversize
7			Bearing, Half - Connecting Rod		113-0166-40	2	.040" Oversize
	114-0188	4	Standard				Begin Spec P
	114-0188-02	4	.002" Undersize		113-0203	2	Standard
	114-0188-10	4	.010" Undersize		113-0203-05	2	.005" Oversize
	114-0188-20	4	.020" Undersize		113-0203-10	2	.010" Oversize
	114-0188-30	4	.030" Undersize		113-0203-20	2	.020" Oversize
					113-0203-30	2	.030" Oversize
					113-0203-40	2	.040" Oversize

Oil System



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	120-0491	1	Pump, Oil	12	526-0065	2	Washer, Flat - Copper (5/16" Screw)
2	120-0161	1	Gasket Kit, Oil Pump	13	122-0502	1	Seal, Oil Filter Air
3	800-0007	2	Screw, Cap - Hex Head (1/4-20 x 1")	14	309-0010	1	Switch, Oil Pressure (S3) Spec A Through C
4	850-0040	2	Washer, Lock - Spring (1/4")		309-0237	1	Spec D Through K - Begin Spec P
5	120-0400	1	Cup, Oil Pump Intake Spec A Through N		309-0322	1	Begin Spec L
	120-0413	1	Begin Spec P	15	502-0058	1	Tee - Low Oil Pressure Switch (Spec A Through D)
6	122-0320	1	Adapter, Oil Filter	16	801-0050	1	Screw, Oil Bypass
7	122-0774	1	Gasket, Oil Filter Adapter	17	120-0140	1	Spring, Oil Bypass
8	122-0323	1	Filter, Oil	18	120-0398	1	Valve, Oil Bypass
9			Drain, Oil Filter (Begin Spec L)	19	526-0066	1	Washer, Flat - Copper (3/8" Screw)
	122-0352	1	Pressure Cooled Sets				Elbow, Street
	122-0360	1	Vacu-Flo Cooled Sets	20	502-0196	1	90° - Spec D Through N
10	815-0194	2	Screw, Self Tapping - Hex Head (#10-32 x 3/8") Begin Spec L		502-0053	1	45° - Begin Spec P
11	800-0028	2	Screw, Cap - Hex Head (5/16-18 x 1")	21	505-0057	1	Plug, Hex (1/8") (Spec A Through D)

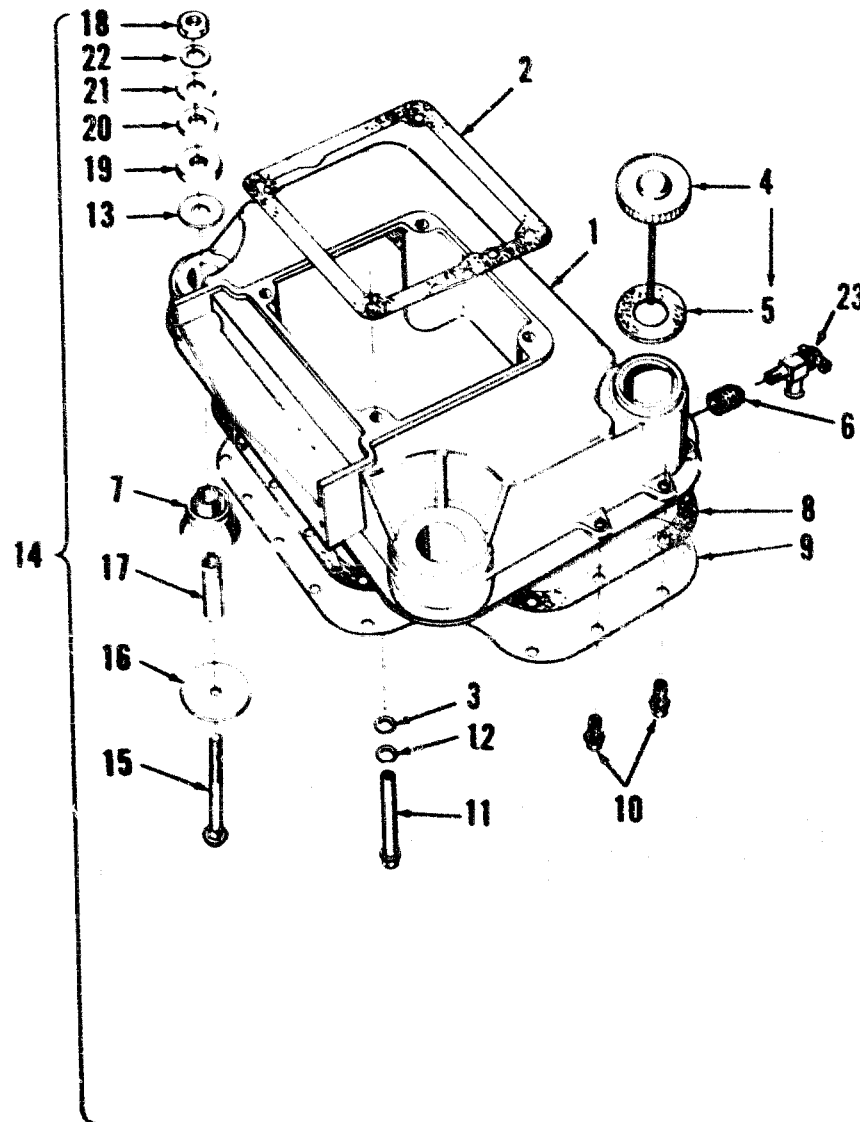
Oil Base (Spec A Through N)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	102-0672	1	Base, Oil	11	862-0004	1	*Nut, Hex (7/16-14)
2			Gasket, Oil Base	12	850-0055	1	*Washer, Lock - Spring (7/16")
	102-0646	1	Spec A Through K	13	526-0014	1	*Washer, Flat (7/16" Screw)
	102-0693	1	Spec L Through N	14	526-0198	2	*Washer, Flat (9/16" Screw)
3	800-0051	4	Screw, Cap - Hex Head (3/8-16 x 1-1/4") (Replaces stud used on some early Spec A through D models)	15	402-0282	1	*Snubber
4	123-0489	1	Indicator, Oil Level (Includes Gasket)	16	402-0290	1	*Bushing, Spacer
5	123-0191	1	Gasket, Indicator	17	526-0195	1	*Washer, Flat (7/16" Screw)
6	505-0056	1	Plug, Drain (1/2")	18	816-0212	1	*Bolt, Carriage (7/16-14 x 5-1/2")
7	850-0050	4	Washer, Lock - Spring (3/8")	19	104-0091	4	Nut, Hex - Oil Base Stud (Used on some early Spec A through D oil bases with oil base to cylinder block mounting studs)
8	402-0284	4	Cushion, Vibration				
9	526-0286	2	Washer, Flat (1" Screw) Generator End - Spec L through N				
10	402-0291	4	Hardware Package, Mounting (Includes Parts Marked *)				

* - Parts and Quantities Included in Each 402-0291 Hardware Mounting Package.

**Oil Base
(Begin Spec P)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Base, Oil (Includes Parts Marked #)
	102-0967	1	Pressure Cooled Sets
	102-0956	1	Vacu-Flo Cooled Sets
2	102-1397	1	Gasket, Oil Base
3	526-0030	4	Washer, Flat (3/8" Screw)
4	123-1400	1	Indicator, Oil Level (Includes Gasket)
5	123-0191	1	Gasket
6	505-0110	1	Plug, Drain (3/8")
7			Cushion, Vibration
	402-0284	4	Spec P
	402-0283	4	+ Begin Spec R
8	102-1275	1	#Gasket, Oil Pan
9	102-0889	1	#Pan, Oil Base
10	821-0018	20	#Screw, Cap - Hex Washer Head (1/4-20 x 5/8")
11	800-0064	4	Screw, Cap - Hex Head (3/8-16 x 4-1/2")
12	850-0050	4	Washer, Lock - Spring (3/8")
13	526-0286	2	+Washer, Flat (1" Screw)

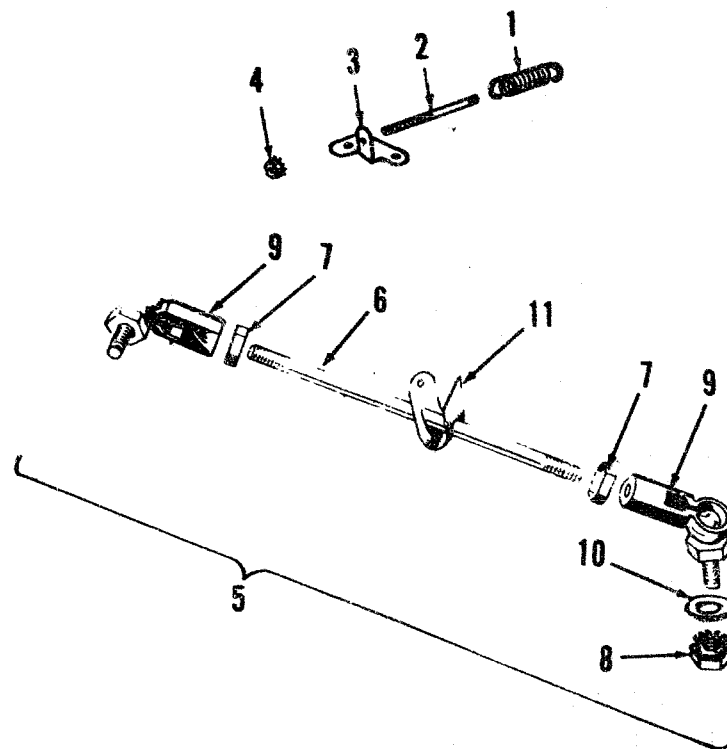
REF NO.	PART NO.	QTY USED	PART DESCRIPTION
14			Kit, Mounting - Hardware
	402-0291	4	Begin Spec P (Includes Parts Marked *)
	402-0480	2	Begin Spec R (Includes Parts Marked +)
15			Bolt, Carriage
	816-0212	1	* Spec P (7/16-14 x 5-1/2")
	816-0206	4	+ Begin Spec R (7/16-14 x 3-1/2")
16			Washer, Flat
	526-0195	1	* 7/16" Screw - Spec P
	526-0038	1	+ 5/8" Screw - Begin Spec R
17	402-0290	1	+*Bushing, Spacer
18	862-0004	1	+*Nut, Hex (7/16-14)
19	402-0282	1	+*Snubber, Shock
20	526-0198	2	+*Washer, Flat (9/16" Screw)
21	526-0014	1	+*Washer, Flat (7/16" Screw)
22	850-0055	1	+*Washer, Lock - Spring (7/16)
23	504-0092	1	Valve, Drain - Oil

+ - Parts Included in 402-0480 Hardware Package.
 * - Parts Included in 402-0291 Hardware Package.
 # - Parts Included in the Oil Base.

This diagram shows an exploded view of a mechanical assembly. The main components are labeled with numbers 1 through 18. Part 1 is a large, circular, dome-shaped cover with a central protrusion. Part 2 is a small circular flange. Part 3 is a long, thin rod with a threaded end. Part 4 is a bracket-like component. Part 5 is a small circular washer or spacer. Part 6 is a small rectangular plate. Part 7 is a small circular component. Part 8 is a small rectangular plate. Part 9 is a small rectangular plate with two holes. Part 10 is a small circular component. Part 11 is a small circular component. Part 12 is a small rectangular plate. Part 13 is a small circular component. Part 14 is a small circular component. Part 15 is a small rectangular plate. Part 16 is a small rectangular plate. Part 17 is a small circular component. Part 18 is a small circular component.

* - Parts Included in 103-0641 Gearcase Kit.

Governor (Spec A Through K)

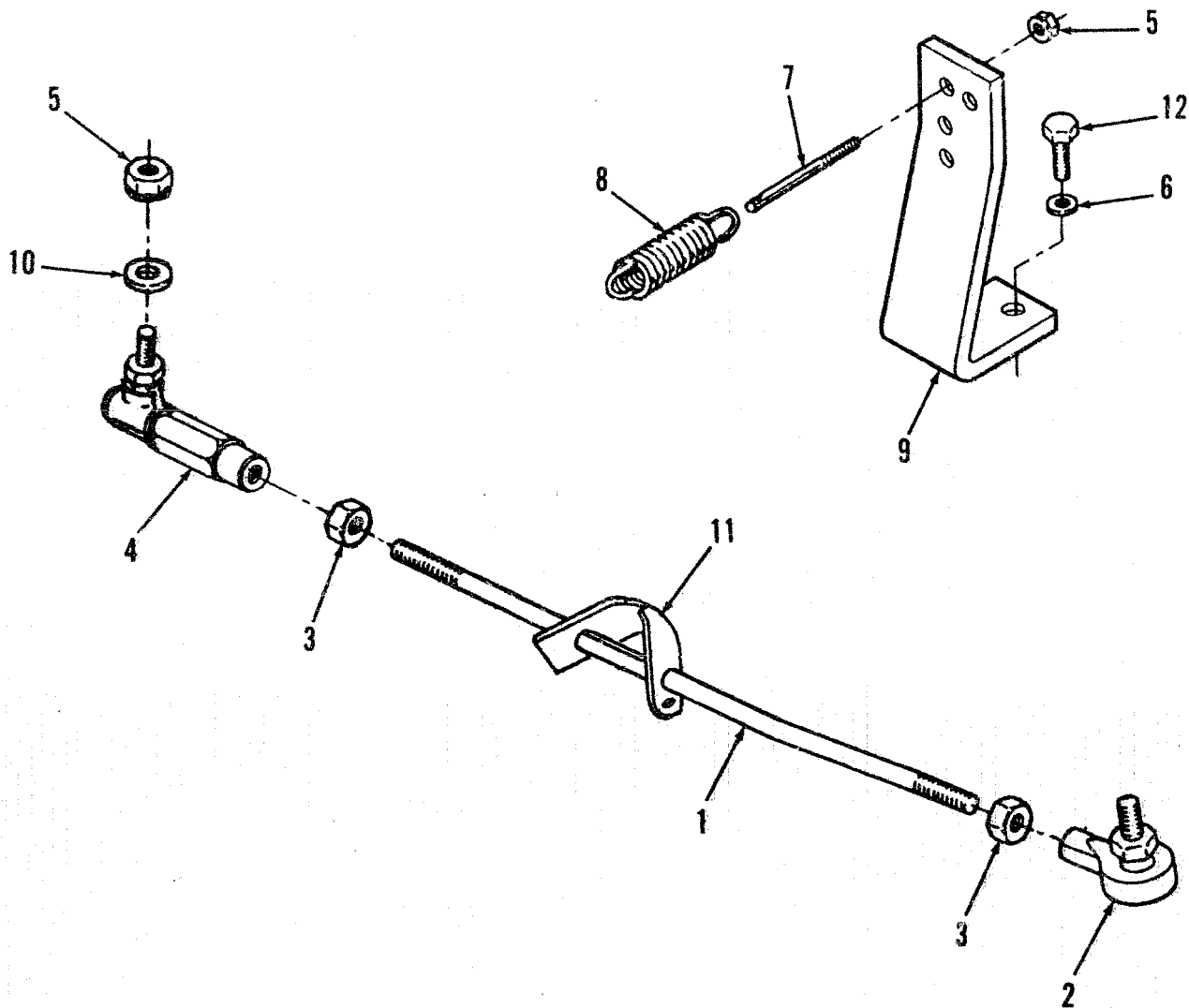


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-0098	1	Spring, Governor
2	150-0096	1	Stud, Speed Adjustment
3	150-1262	1	Bracket, Speed Stud
4	870-0131	1	Nut, Hex - With Washer (#10-32) Speed Adjustment
5	150-1080	1	Linkage, Governor (Will replace all specification letters when purchased as an assembly) (Includes Parts Marked *)
6			Rod, Governor Control
	520-0187	1	* Later Models - Use with Metal Ball Joints
	520-0623	1	Early Models - Use with Plastic Ball Joints

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
7	870-0053	2	*Nut, Hex (#10-32)
8	870-0131	1	*Nut, Hex - With Washer (#10-32)
9			Joint, Ball
	150-0639	2	* Later Models - Metal
	150-0939	2	Early Models - Plastic
10	526-0196	1	*Washer, Flat (7/32" ID x 7/16" OD x 1/8" Thk)
11	150-0430	1	*Clip, Governor Sensitivity

* - Parts Included in 150-1080 Governor Linkage.

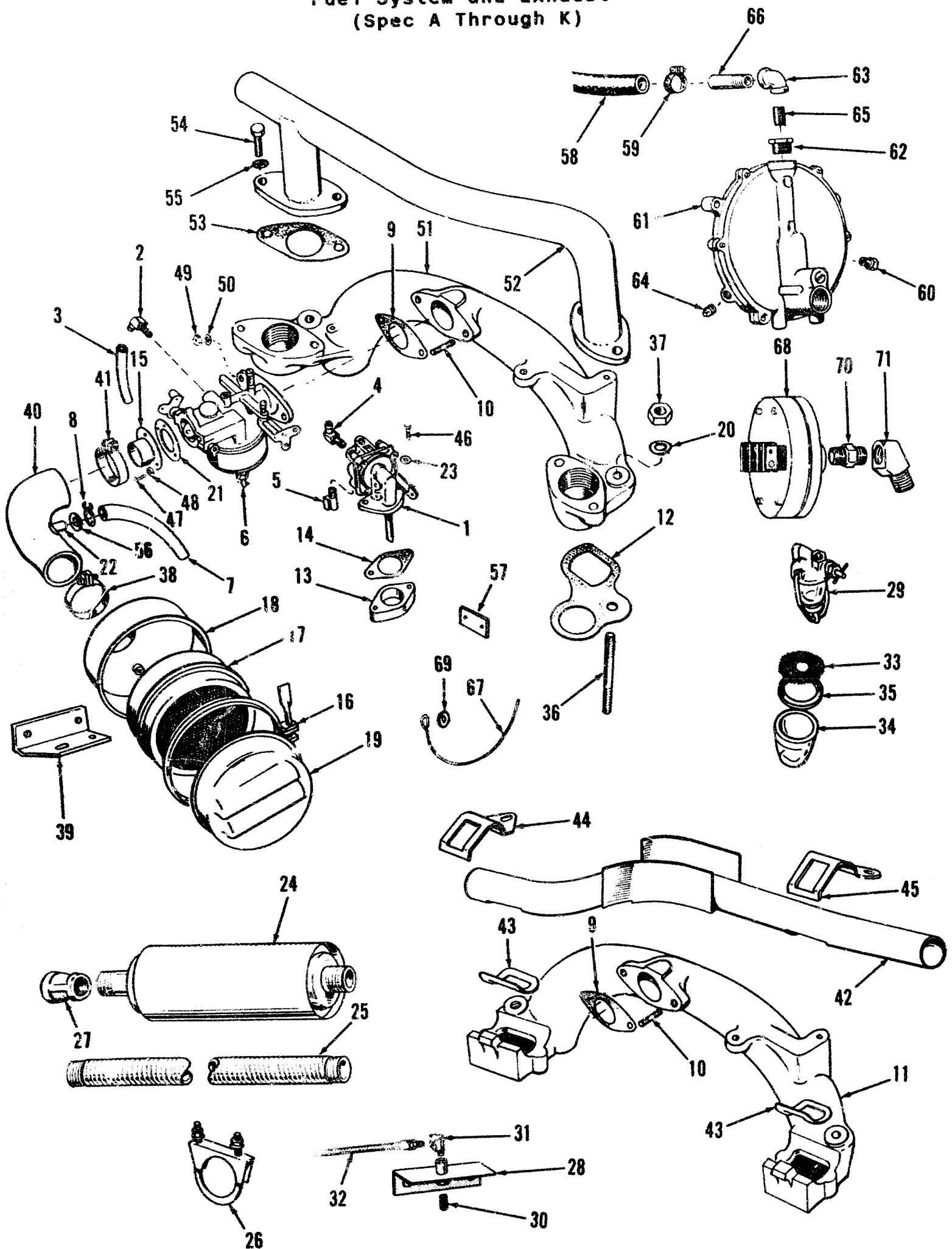
Governor (Begin Spec L)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	150-1467	1	Linkage, Governor (Includes Parts Marked *)	7	150-0096	1	Stud, Governor Speed Adjusting
1	150-1075	1	*Rod, Governor Control	8	150-1612	1	Spring, Governor Speed
2	150-1081	1	*Joint, Ball	9	150-1577	1	Bracket, Governor Spring
3	870-0053	2	*Nut, Hex (#10-32)	10	526-0196	1	*Washer, Flat
4	150-0639	1	*Joint, Ball	11	150-0430	1	*Clip, Governor Sensitivity
5	870-0131	2	*Nut, Hex with Washer (#10-32)	12	800-0004	2	Screw, Cap - Hex Head (1/4-20 x 5/8")
6	526-0063	2	Washer, Flat - Copper (1/4" Screw)				

* - Parts Included in 150-1467 Governor Linkage.

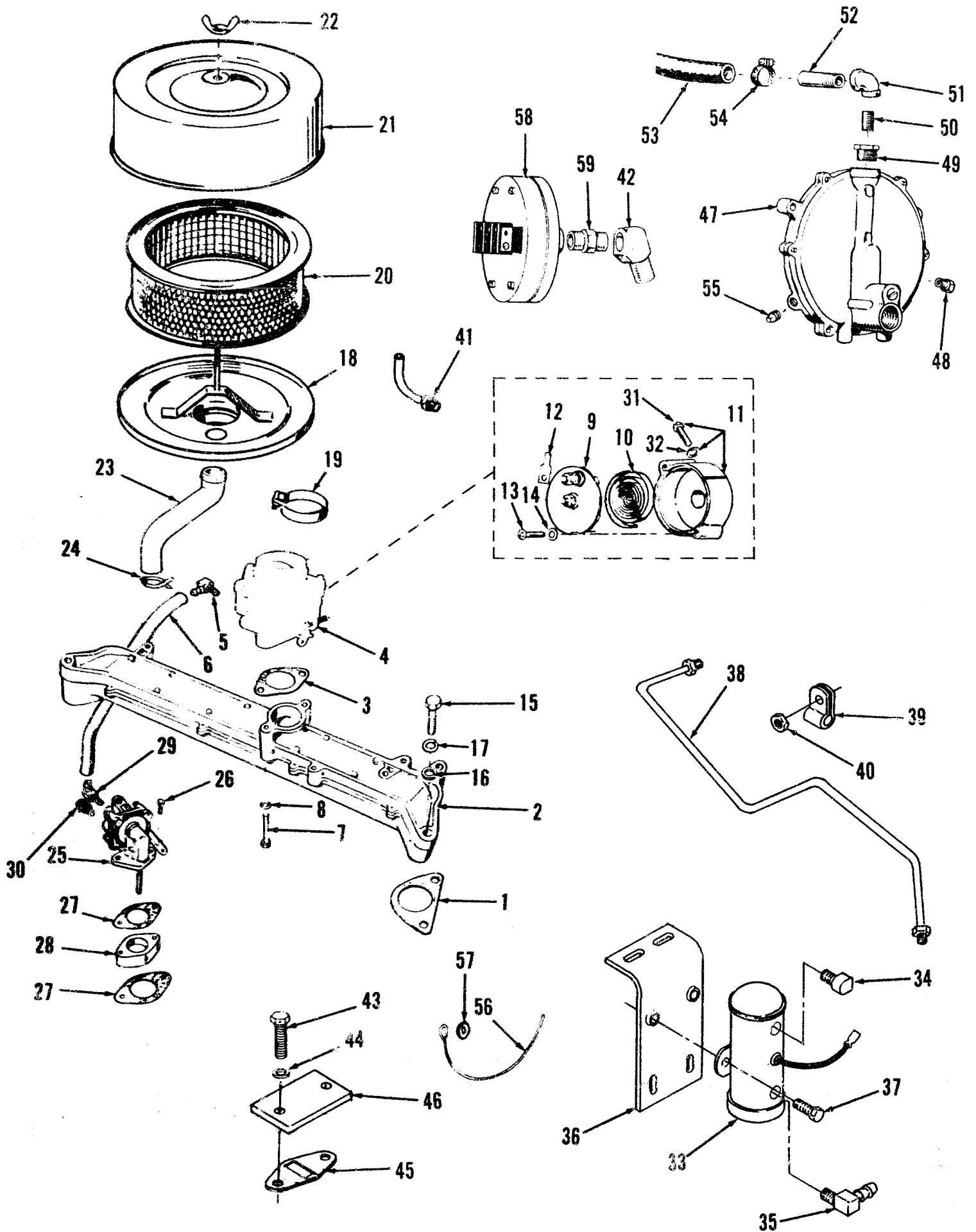
Fuel System and Exhaust (Spec A Through K)



Fuel System and Exhaust (Spec A Through K)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-1223	1	Pump, Fuel (See Separate Page for Components)	33	149-0202	1	Screen, Fuel Filter
2			Elbow, Carburetor Inlet	34	149-0150	1	Bowl, Fuel Filter
	502-0313	1	Gasoline Fueled Sets	35	149-0149	1	Gasket, Fuel Filter Bowl
	502-0065	1	Gaseous Fueled Sets	36	520-0713	2	Stud, Intake Manifold Mounting
3			Line, Fuel Pump to Carburetor	37	104-0091	2	Nut, Intake Manifold Stud
	149-1228	1	Gasoline Fueled Sets	38	503-0004	1	Clamp, Hose - Air Cleaner
	149-1444	1	Gaseous Fueled Sets	39			Bracket, Air Cleaner Mounting
4			Elbow, Fuel Pump Outlet		140-1067	1	Spec A Through C
	502-0313	1	Gasoline Fueled Sets		140-1133	1	Spec D Through K
	502-0002	1	Gaseous Fueled Sets	40	140-1075	1	Elbow - Air Inlet (Includes Tube and Retainer Washer)
5			Elbow, Fuel Pump Inlet	41	503-0311	1	Clamp, Hose - Air Inlet
	502-0002	1	Gasoline Fueled Sets				Elbow to Adapter
	502-0020	1	Gaseous Fueled Sets	42	155-1069	1	Tube, Exhaust - Spec A Through E
6			Carburetor - Complete (See Separate Page for Components)	43	155-1070	2	Gasket, Exhaust Manifold - Spec A Through E
			Gasoline	44	155-1052	1	Clamp, Exhaust - Left Side - Spec A Through E
	141-0808	1	Manual Choke	45	155-1053	1	Clamp, Exhaust - Right Side - Spec A Through E
	141-0807	1	Electric Choke	46	806-0009	2	Screw (1/4-20 x 1.10") Pump Mounting
			Gas and Gas-Gasoline (Spec A Through Serial Number 8773234835 during Spec F also order number 502-0304 elbow)	47	815-0199	3	Screw (10-32 x 5/16") Adapter Mounting
	141-0833	1	Gas	48	850-0030	3	Washer, Lock - Spring (#10)
	141-0847	1	Gas-Gasoline	49	868-0002	2	Nut (5/16-24) - Carburetor Mounting
7	503-0582	1	Hose, Breather	50	854-0017	2	Washer, Lock - IT (5/16")
8	503-0170	2	Clamp, Breather Hose	51			Manifold, Intake - Spec F Through K
9	141-0281	1	Gasket, Carburetor Mounting		154-1385	1	Standard Sets
10	520-0526	2	Stud, Carburetor Mounting		154-1505	1	Sets With Vacuum Regulator Switch
11	154-1237	1	Manifold, Intake - Spec A Through E	52	154-1386	1	Manifold, Exhaust - Spec F Through K
12	154-1250	2	Gasket, Intake Manifold to Cylinder Block	53	154-1383	2	Gasket, Exhaust Manifold - Spec F Through K
13	149-0045	1	Spacer, Fuel Pump Mounting	54	800-0028	4	Screw, Cap - Hex Head (5/16-18 x 1") Spec F Through K
14	149-0003	2	Gasket, Fuel Pump Mounting	55	850-0045	4	Washer, Lock - Spring (5/16") Spec F Through K
15	145-0398	1	Adapter, Carburetor Air Inlet	56	851-0011	1	Washer, Retainer - Spring Grip - Breather Connection Tube
16	140-1073	1	Clamp, Air Cleaner	57	149-0136	1	Cover, Fuel Pump Hole - Gas Only Sets
17	140-1071	1	Element, Air Cleaner	58	503-0315	1	Hose, Regulator to Carburetor
18			Cover, Air Cleaner	59	503-0032	2	Clamp, Hose
	140-1066	1	Spec A Through C	60	148-0107	1	Vent
	140-1135	1	Spec D Through K	61	148-0311	1	Regulator, Garretson
19	140-1061	1	Cover, Air Cleaner	62	505-0017	1	Bushing, Reducer (3/8" to 1/4")
20	850-0050	2	Washer, Lock - Spring (3/8")	63	505-0038	1	Elbow, 1/4"
21	140-0921	1	Gasket, Adapter to Carburetor	64	505-0057	1	Plug, Pipe (1/8")
22	123-0733	1	Tube, Breather Connection	65	505-0099	1	Nipple (1/4 x 7/8")
23	526-0063	2	Washer (Copper) Pump Mounting	66	505-0302	1	Nipple, Half
24			Muffler, Exhaust	67	143-0231	1	Wire, Choke Lock
	155-0077	1	Standard	68	148-0367	1	Switch, Vacuum Regulator
	155-0360	1	Critical	69	526-0008	1	Washer (#10), Choke Lock Wire
25			Tube, Exhaust - Flexible	70	502-0082	1	Nipple, Hex Pipe - Vacuum Regulator Switch
	155-1094	1	Spec A Through E	71	502-0053	1	Elbow (45°), Street - Vacuum Regulator Switch
	155-1138	1	Spec F Through K				
26			Clamp, Exhaust Tube				
	155-1015	1	Spec A Through E				
	155-1135	1	Spec F Through K				
27	505-0036	1	Coupling, Reducer (1-1/2" x 1-1/4")				
28	149-0616	1	Bracket, Fuel Filter				
29	149-0079	1	Filter, Fuel				
30	502-0046	1	Nipple, Brass - Bracket to Filter Inlet				
31	502-0020	1	Elbow, Street, Filter Bracket				
32			Line, Fuel				
	501-0003	1	9"				
	501-0005	1	18-1/2"				

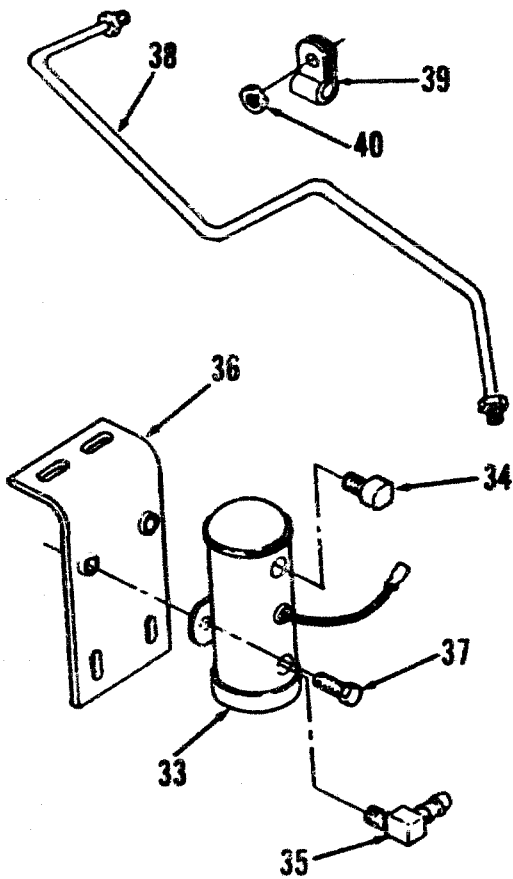
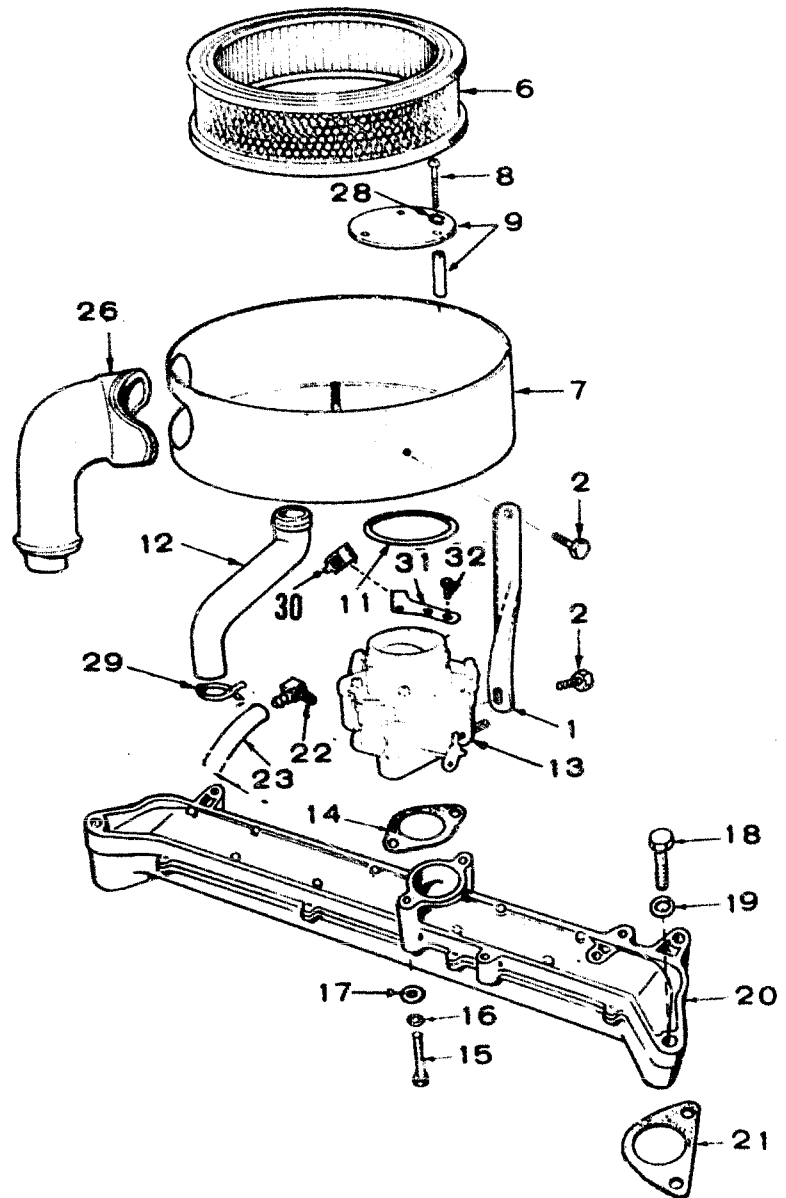
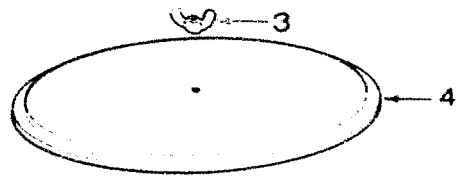
Fuel System (Begin Spec L)



Fuel System (Begin Spec L)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-1483	2	Gasket, Intake Manifold	29	502-0003	1	Connector, Inverted Male - Fuel Pump Outlet
2	154-2293	1	Manifold, Intake	30	502-0002	1	Elbow, Inverted Male - Fuel Pump Inlet
3	145-0438	1	Gasket, Carburetor Mounting	31	815-0110	1	Screw, Machine - Fillister Head (#10-32 x 7/8")
4			Carburetor - Complete (See Separate Page for Components)	32	850-0030	1	Washer, Lock - Spring (#10)
	142-0665	1	Gasoline (Includes Mounting Gasket)	33	149-1828	1	Pump, Fuel - Electric - Spec R (E4)
			Gas and Gas-Gasoline (Includes Mounting Gasket and Fuel Pipe)	34	502-0002	1	Elbow, Inverted Male - 90° - Spec R
	142-0632	1	Gas	35	502-0313	1	Elbow, Hose - 90° - Spec R
	142-0642	1	Gas-Gasoline	36	149-2203	1	Bracket, Fuel Pump - Spec R
5	502-0003	1	Connector, Inverted Male	37	821-0009	2	Screw, Cap - Hex Head (1/4-20 x 3/8") Spec R
6	149-1592	1	Line, Fuel	38	149-1531	1	Line, Fuel - Pump to Carburetor - Spec R
7	800-0012	2	Screw, Cap - Hex Head (1/4-20 x 2-1/4")	39	518-0350	1	Clamp, Insulated - Fuel Line Begin Spec R
8	740-1004	2	Washer, Flat (M6)	40	862-0015	1	Nut, Hex (5/16-18) Spec R
9	153-0114	1	Element and Cover	41	148-0147	1	Pipe, Fuel
10	153-0017	1	Bi-Metal, Choke	42	502-0053	1	Elbow, Street
11	153-0440	1	Housing and Screw, Choke	43	800-0004	2	Screw, Hex Head (1/4-20 x 5/8)
12	332-0527	1	Terminal, Wire	44	526-0063	2	Washer, Flat - Copper (1/4" Screw)
13	815-0285	2	Screw, Machine - Round Head (#8-32 x 5/16")	45	149-0003	1	Gasket, Cover
14	526-0062	2	Washer, Flat (#10 Screw)	46	149-0136	1	Cover, Fuel Pump Hole - Gas Sets Only
15	800-0058	4	Screw, Cap - Hex Head (3/8-16 x 3")	47	148-0311	1	Regulator, Garretson
16	526-0030	4	Washer, Flat (3/8" Screw)	48	148-0107	1	Vent
17	740-1006	4	Washer, Flat (M8)	49	505-0017	1	Bushing, Reducer
18	140-1344	1	Base, Air Cleaner	50	505-0099	1	Nipple
19	140-1058	1	Clamp, Air Cleaner Mounting	51	505-0038	1	Elbow
20	140-1216	1	Element, Air Cleaner	52	505-0302	1	Nipple, Half
21	140-1295	1	Cover, Air Cleaner	53	503-0315	1	Hose, Regulator to Carburetor (1/2" ID x 2 ft)
22	865-0020	1	Nut, Wing (1/4-20)	54	503-0032	2	Clamp, Hose
23			Tube, Breather	55	505-0057	1	Plug, Pipe
	123-1264	1	Spec L Through N (3" Long)	56	143-0231	1	Wire, Choke Lock (Gas-Gasoline Sets)
	123-1263	1	Begin Spec P (3.75" Long)	57	526-0008	1	Washer, Flat (#10 Screw) Gas-Gasoline Sets
24	503-0769	1	Clamp, Breather Tube	58	148-0367	1	Switch, Vacuum Regulator
25	149-1791	1	Pump, Fuel - Spec L Through P (See Separate Page for Components) (Includes Mounting Gasket)	59	502-0082	1	Nipple
26	806-0009	1	Screw, Counterbore Cap (1/4-20 x 1-1/4")				
27	149-0003	2	Gasket, Fuel Pump Mounting				
28	149-0045	1	Block, Spacer - Fuel Pump				

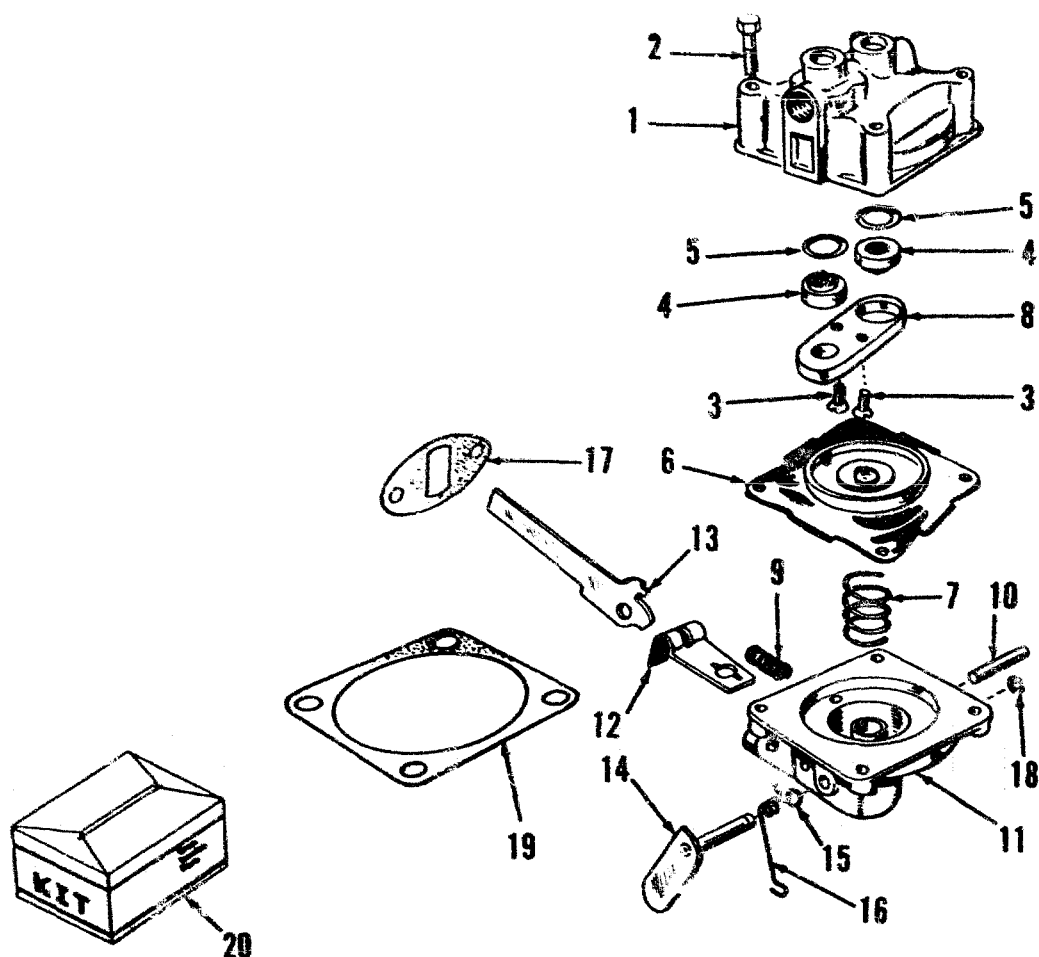
Fuel System (Begin Spec P)



Fuel System (Begin Spec P)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	140-1499	1	Support, Cleaner - Air	20	154-2293	1	Manifold, Intake
2	821-0009	2	Screw, Cap - Hex Head - Locking (1/4-20 x 3/8")	21	154-2219	2	Gasket, Manifold - Intake
3	865-0020	1	Nut, Wing (1/4-20)	22	502-0313	1	Elbow, Inlet - Carburetor
4	140-1494	1	Cover, Cleaner - Air	23	149-2211	1	Line, Fuel
6	140-2522	1	Element, Cleaner - Air	26	140-1495	1	Tube, Inlet - Air (Blower Housing to Air Cleaner)
7	140-1498	1	Housing, Cleaner - Air	28	526-0234	3	Flat
8	815-0470	3	Screw, Machine - Binder Head w/Nylon Patch (#10-32 x 1-1/2")	29	503-0171	1	Clamp, Hose
9	145-0521	1	Plate, Deflector - Air Cleaner	30	518-0004	1	Clip, End - Rod
11	509-0145	1	Seal, "O" Ring - Air Cleaner	31	153-0509	1	Bracket, Cable - Choke (Includes Bushing)
12	123-1264	1	Tube, Breather	32	821-0004	2	Screw, Cap - Hex Head Locking (#10-32 x 5/16")
13	146-0440	1	Carburetor, Gasoline (See Separate Page for Components) (Includes Mounting Gasket)	33	149-1828	1	Pump, Fuel - Electric (Includes Terminals)
14	154-0733	1	Gasket, Mounting - Carburetor	34	502-0002	1	Elbow, Male - Inverted (90°)
15	800-0035	2	Screw, Cap - Hex Head (5/16-18 x 2-1/2")	35	502-0313	1	Elbow, Hose - 90°
16	850-0045	2	Washer, Lock - Spring (5/16")	36	149-2203	1	Bracket, Pump - Fuel
17	526-0115	2	Washer, Flat (11/32" ID x 11/16 OD x 1/16" Thk)	37	821-0009	2	Screw, Cap Hex Head (1/4-20 x 3/8")
18	800-0058	4	Screw, Cap - Hex Head (3/8-16 x 3" Lg)	38	149-1531	1	Line, Fuel - Pump to Carburetor
19	850-0050	4	Washer, Lock - Spring (3/8")	39	518-0350	1	Clamp, Insulated - Fuel Line
				40	862-0015	1	Nut, Hex (5/16-18)

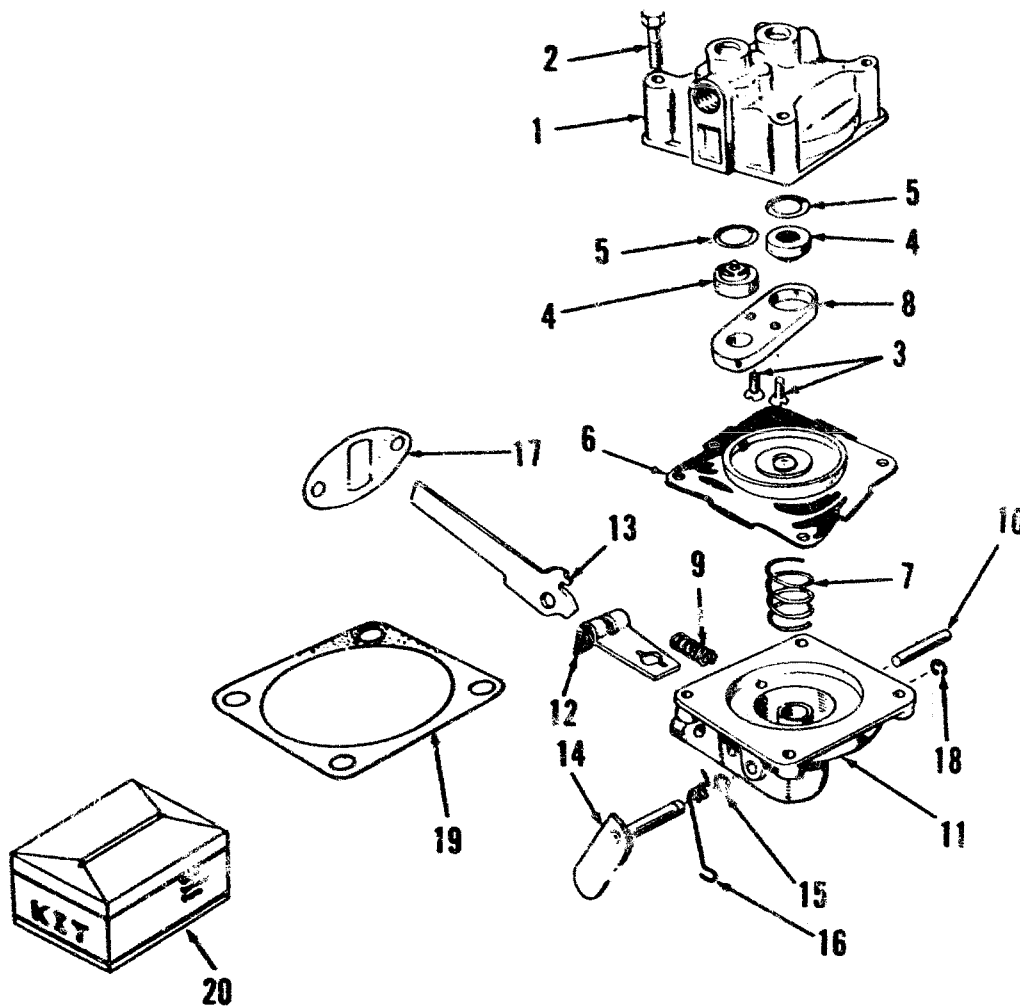
Fuel Pump Components (Spec A Through K)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	149-1223	1	Pump, Fuel	11		1	Body, Not Sold Separately
1		1	Body, Not Sold Separately	12	149-0670	1	Link, Rocker Arm
2	815-0148	4	Screw, Machine (#8-32 x 7/8")	13	149-1148	1	Arm, Rocker
3	815-0147	2	Screw, Phillips - Self-Tapping (#6-32 x 5/8") Valve Retainer	14	149-1042	1	Lever, Primer
4	149-0096	2	*Valve and Cage	15	509-0065	2	Seal, "O" Ring
5	149-0095	2	*Gasket, Valve	16	149-1044	1	Spring, Primer Lever
6	149-0582	1	*Diaphragm Assembly	17	149-0003	1	*Gasket, Pump Mounting
7	149-0672	1	*Spring	18	518-0129	1	Ring, Retainer Primer Lever
8	149-0539	1	Retainer, Valve Cage	19	149-0858	1	*Gasket, Diaphragm - Lower Side
9	149-0675	1	*Spring	20	149-0526	1	Kit, Repair (Includes Parts Marked *)
10	516-0113	1	Pin, Rocker Arm				

* - Parts Included in 149-0526 Fuel Pump Repair Kit.

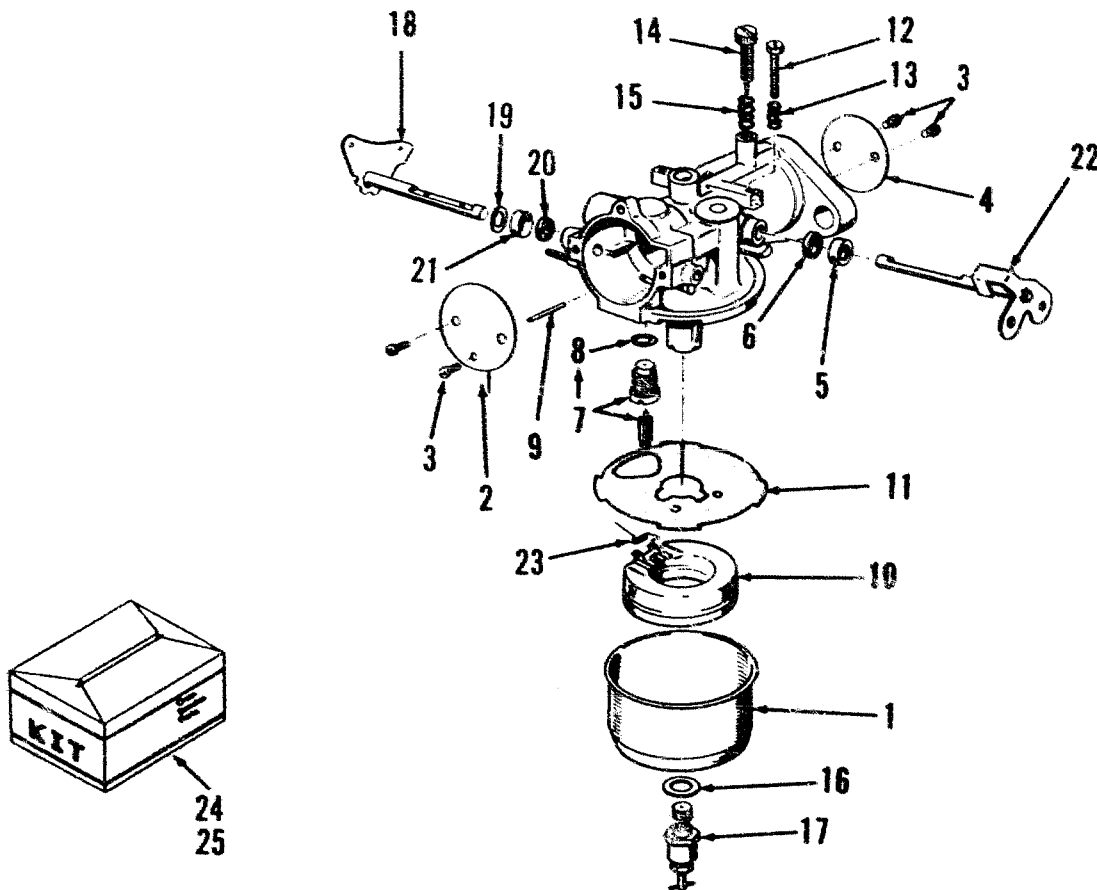
Fuel Pump Components (Spec L Through P)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	149-1791	1	Pump, Fuel	11		1	Body, Not Sold Separately
1		1	Body, Not Sold Separately	12	149-0670	1	Link, Rocker Arm
2	815-0148	4	Screw, Machine (#8-32 x 7/8")	13	149-1148	1	Arm, Rocker
3	815-0147	2	Screw, Phillips - Self-Tapping (#6-32 x 5/8")	14	149-1042	1	Lever, Primer
			Valve Retainer	15	509-0065	2	Seal, "O" Ring
4	149-0096	2	*Valve and Cage	16	149-1044	1	Spring, Primer Lever
5	149-0095	2	*Gasket, Valve	17	149-0003	1	*Gasket, Pump Mounting
6	149-0582	1	*Diaphragm Assembly	18	518-0129	1	Ring, Retainer - Primer Lever
7	149-0672	1	*Spring	19	149-0858	1	*Gasket, Diaphragm - Lower Side
8	149-0539	1	Retainer, Valve Cage	20	149-0526	1	Kit, Repair (Includes Parts Marked *)
9	149-0675	1	*Spring				
10	516-0113	1	Pin, Rocker Arm				

* - Parts Included in 149-0526 Fuel Pump Repair Kit.

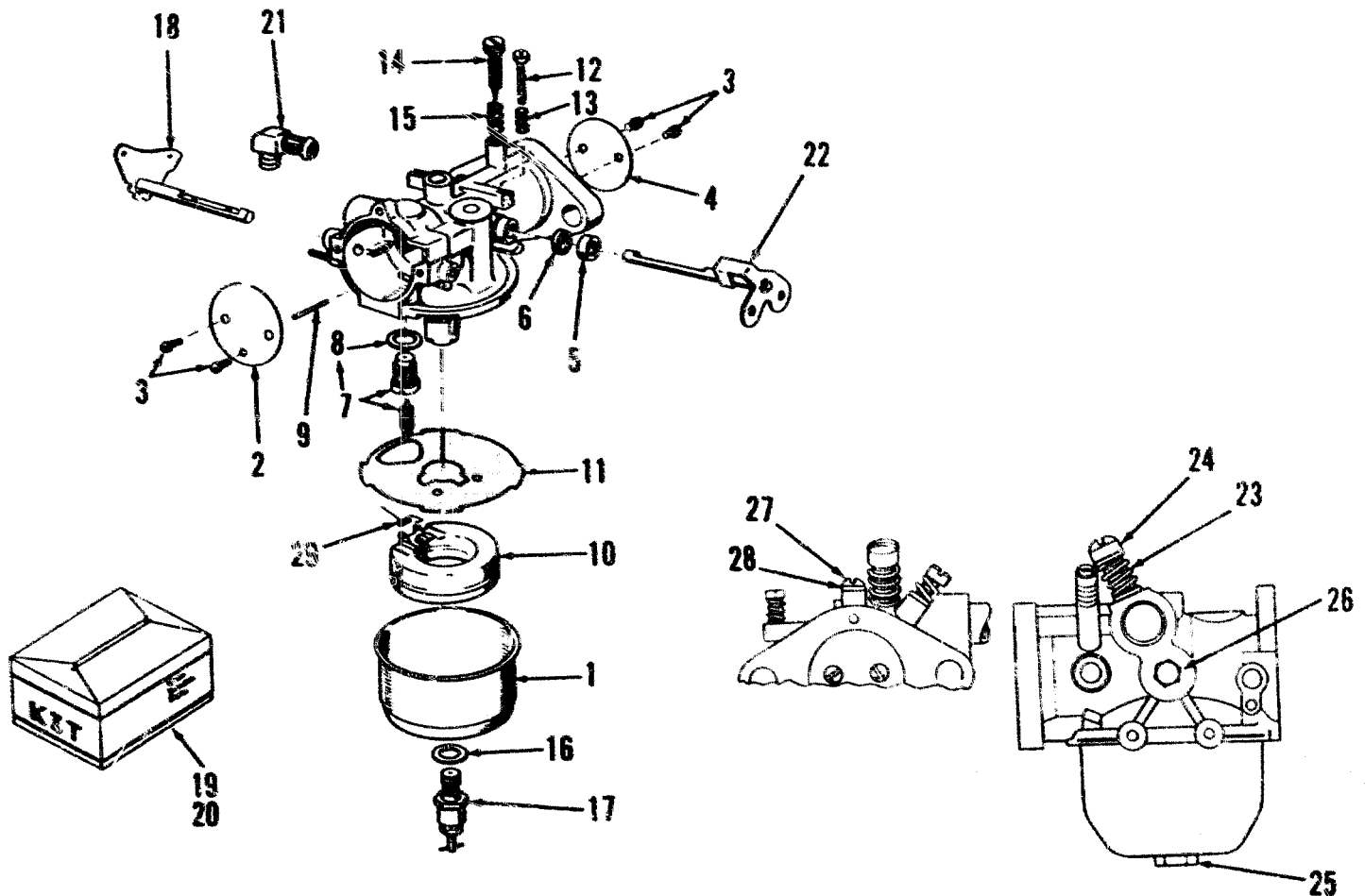
Gasoline Carburetor Components (Spec A Through K)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	141-0900	1	Carburetor, Gasoline	14	141-0713	1	Needle, Idle Adjusting
	141-0899	1	Manual Choke	15	141-0710	1	Spring, Idle Needle
1	141-0708	1	Electric Choke	16	141-0077	1	*Washer, Main Jet
2			Bowl, Fuel	17	141-0816	1	Jet, Main (Adjustable)
			Plate, Choke	18			Shaft, Choke
	141-0818	1	Electric Choke		141-0742	1	Manual Choke
	141-0771	1	Manual Choke		141-0679	1	Electric Choke
3	141-0698	4	Screw and Washer, Choke and Throttle Plate Mounting	19	141-0699	1	Washer, Manual Choke Units
4	141-0793	1	Plate, Throttle	20	141-0697	1	Seal, Felt - Manual Choke
5	141-0705	1	*Retainer, Seal	21	141-0203	1	Retainer, Felt Seal - Manual Choke
6	141-0661	1	*Seal, Rubber	22	141-0709	1	Shaft and Lever, Throttle
7	141-0830	1	*Valve Seat, Fuel	23	141-0799	1	*Spring, Float
8	141-0811	1	*Washer, Fuel Valve Seat	24	141-0747	1	Kit, Repair (Includes Parts Marked *)
9	141-0703	1	*Shaft, Float	25	141-0748	1	Kit, Gasket (Includes Parts Marked *)
10	141-0702	1	Float				
11	141-0701	1	*Gasket, Bowl to Body				
12	141-0700	1	Screw, Throttle Stop				
13	141-0711	1	Spring, Throttle Stop				

* - Parts Included in 141-0747 Repair Kit.
 * - Parts Included in 141-0748 Gasket Kit.

Gas and Gas-Gasoline Carburetor Components (Spec A Through K)

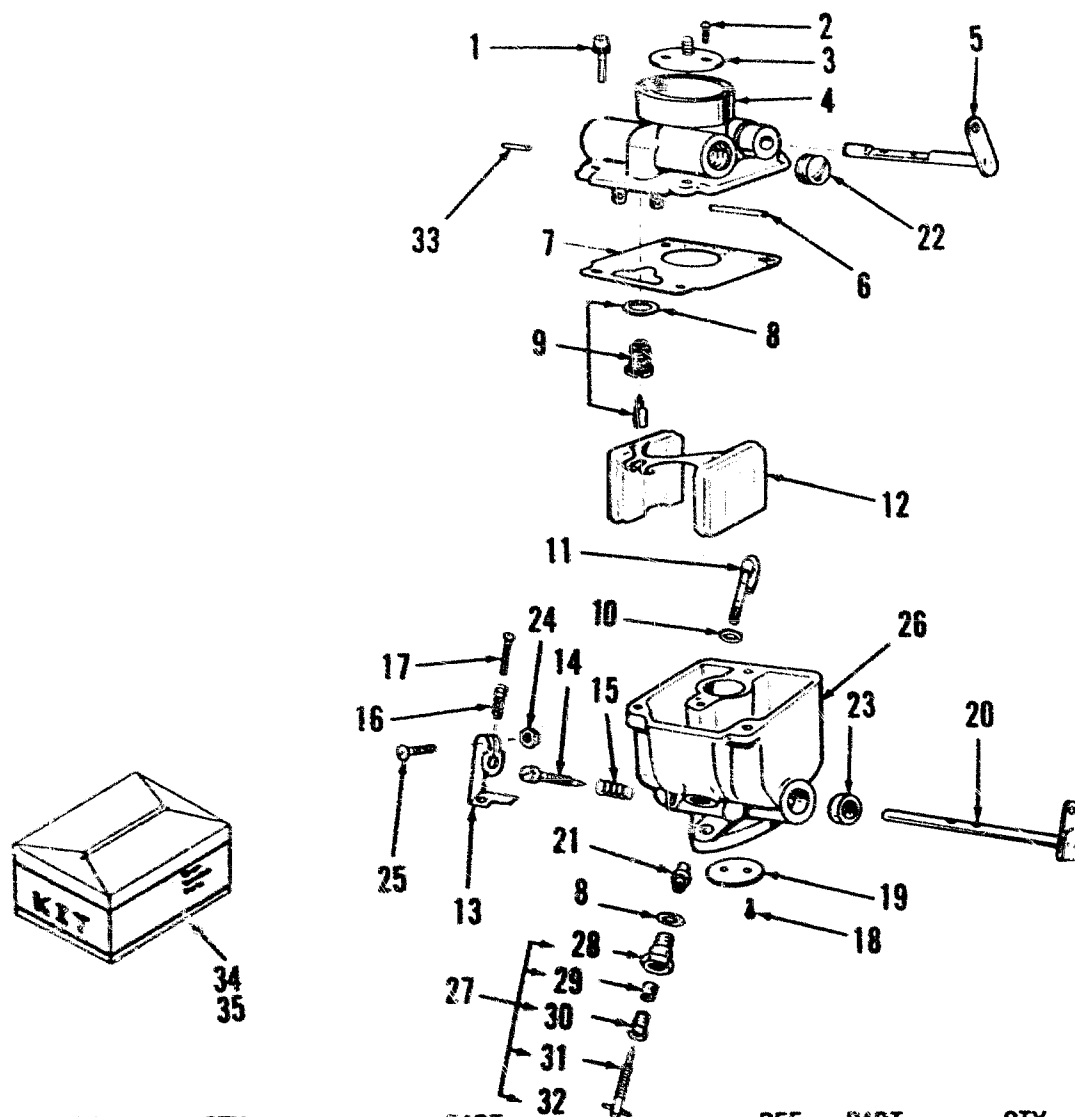


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Carburetor (Spec A through Serial Number B773234835 During Spec F also order Number 502-0304 Elbow)
	141-0847	1	Gas-Gasoline
	141-0833	1	Gas
	141-0281	1	*Gasket, Carburetor Flange
1	141-0708	1	Bowl, Fuel
2	141-0741	1	Plate, Choke (Not Used on Gas Only Units)
3	141-0698	4	Screw and Washer, Choke and Throttle Plate Mounting (2 Used on Gas Only Units)
4	141-0706	1	Plate, Throttle
5	141-0705	1	*Retainer, Seal
6	141-0661	1	*Seal, Rubber
7	141-0830	1	*Valve Seat, Fuel (Not Used on Gas Only Units)
8	141-0811	1	*Washer, Fuel Valve Seat (Not Used on Gas Only Units)
9	141-0703	1	*Shaft, Float (Not Used on Gas Only Units)
10	141-0702	1	Float (Not Used on Gas Only Units)
11	141-0701	1	*Gasket, Bowl to Body
12	141-0700	1	Screw, Throttle Stop
13	141-0711	1	Spring, Throttle Stop
14			Needle, Idle Adjusting
	141-0713	1	Gasoline and Gas Only Units
	141-0713	2	Gas-Gasoline Units

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
15			Spring, Idle Needle
	141-0710	1	Gasoline and Gas Only Units
	141-0710	2	Gas-Gasoline Units
16	141-0077	1	*Washer, Main Jet
17	141-0712	1	Jet, Main (Adjustable) (Not Used on Gas Only Units)
18	141-0716	1	Shaft, Choke (Not Used on Gas Only Units)
19	141-0747	1	Kit, Repair (Includes Parts Marked *)
20	141-0748	1	Kit, Gasket (Includes Parts Marked *)
21	502-0304	1	Elbow, Carburetor Inlet (90° Begin Serial Number B773234836 During Spec F Through Spec K)
22	141-0709	1	Shaft and Lever, Throttle
23	141-0733	1	Spring, Main Gas Needle
24	141-0734	1	Needle, Main Gas Adjusting
25	141-0736	1	Nut, Bowl - Gas Only Units
26	141-0737	1	Plug, Pipe (1/8") - Gas Only Units
27	141-0738	1	Screw (#10-32) - Gas Only Units
28	141-0739	1	Washer, Gas Only Units
29	141-0799	1	*Spring, Float (Not Used on Gas Only Carburetors)

* - Parts Included in 141-0747 Repair Kit.
* - Parts Included in 141-0748 Gasket Kit.

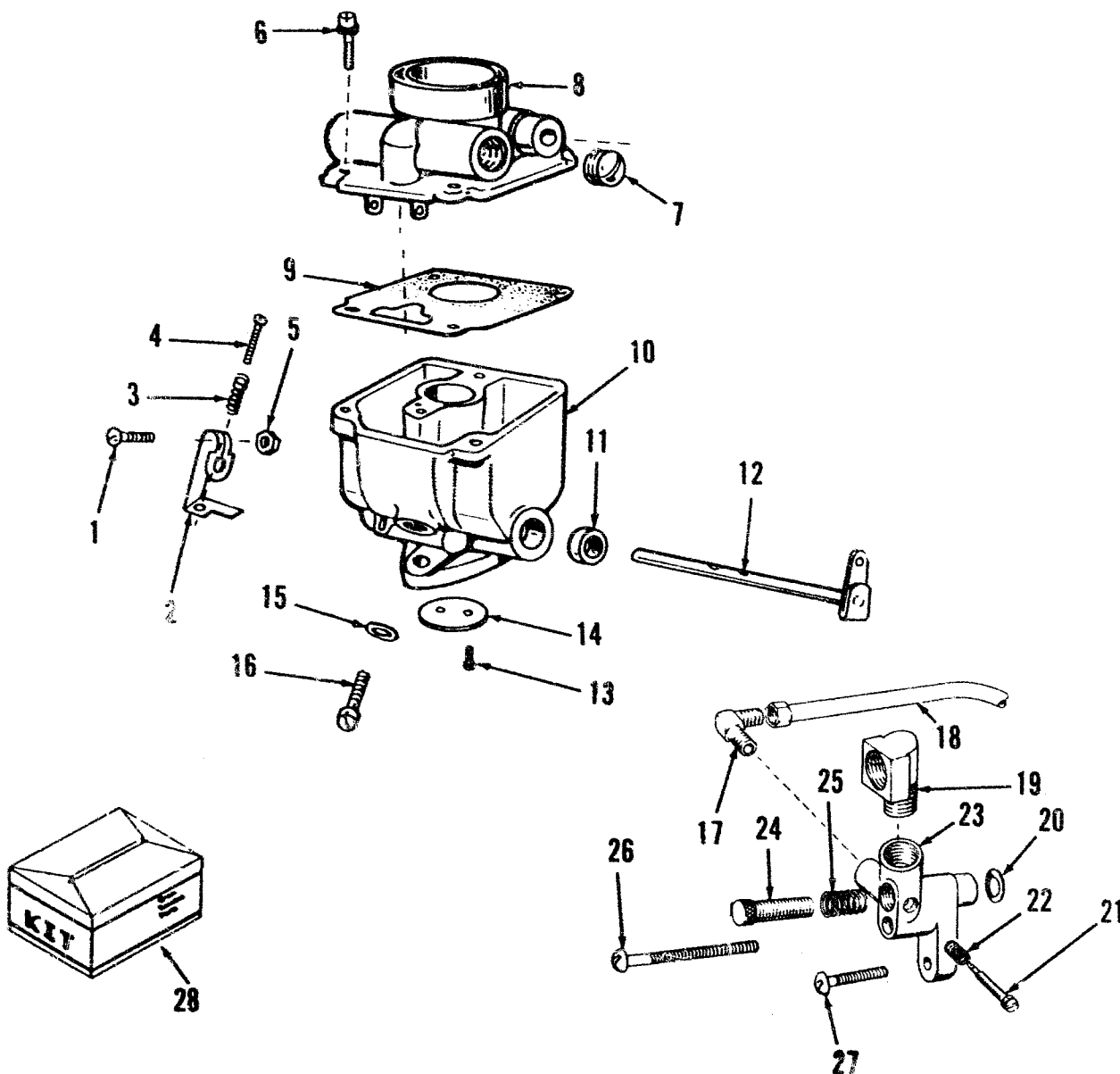
Gasoline Carburetor Components (Begin Spec L)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	142-0665	1	Carburetor (Includes Mounting Gasket)	19	142-0369	1	Fly, Throttle
	145-0438	1	*+Gasket, Carburetor Mounting Screw, Fillister Head	20	142-0368	1	*Shaft, Throttle
1	815-0103	1	#10-24 x 1/2"	21	142-0370	1	Nut and Jet, Nozzle
	815-0109	2	#10-24 x 5/8"	22	505-0008	1	Plug, Inlet
2	815-0091	2	*Screw, Fillister Head (#4-40 x 3/16")	23	142-0343	2	Bushing, Throttle Shaft
3	142-0037	1	Fly, Choke	24	870-0053	1	Nut, Hex (#10-32)
4	142-0205	1	Sleeve, Choke (Cover)	25	813-0103	1	Screw, Machine - Round Head (#10-32 x 3/4")
5	142-0183	1	Shaft, Choke	26		1	Body, Lower (Not Sold Separately)
6	142-0035	1	*Shaft, Float	27	142-0042	1	Needle (Includes Parts Marked *)
7	142-0031	1	*+Gasket, Body Gasket	28	142-0046	1	Retainer, Main Adjusting Needle
8	148-0017	1	*+Float Valve Seat	29	142-0206	1	*Packing, Main Adjusting Needle
	148-0603	1	*+Needle	30	142-0045	1	*Retainer, Main Adjusting Needle Packing
9	142-0459	1	*Valve and Seat (Includes Seat, Valve and Gasket)	31	142-0041	1	*+Needle, Main Adjusting
10	142-0032	1	*+Gasket, Nozzle	32	516-0027	1	*Pin, Main Adjusting Needle
11	142-0604	1	Nozzle	33	142-0227	1	Pin, Choke Stop
12	142-0361	1	Float and Lever	34	142-0602	1	Kit, Repair - Carburetor (Includes Parts Marked *)
13	145-0008	1	Lever, Idle Stop	35	142-0033	1	*Kit, Gasket - Carburetor (Includes Parts Marked +)
14	142-0040	1	*Needle, Idle Adjusting				
15	142-0282	1	Spring, Idle Needle				
16	142-0035	1	Spring, Throttle Stop				
17	812-0063	1	*Screw, Machine - Round Head (#6-32 x 1/2")				
18	815-0072	2	*Screw, Machine - Oval Head (#4-40 x 1/4")				

* - Parts Included in 142-0602 Carburetor Repair Kit.
+ - Parts Included in 142-0033 Carburetor Gasket Kit.
* - Parts Included in 142-0042 Needle Assembly.

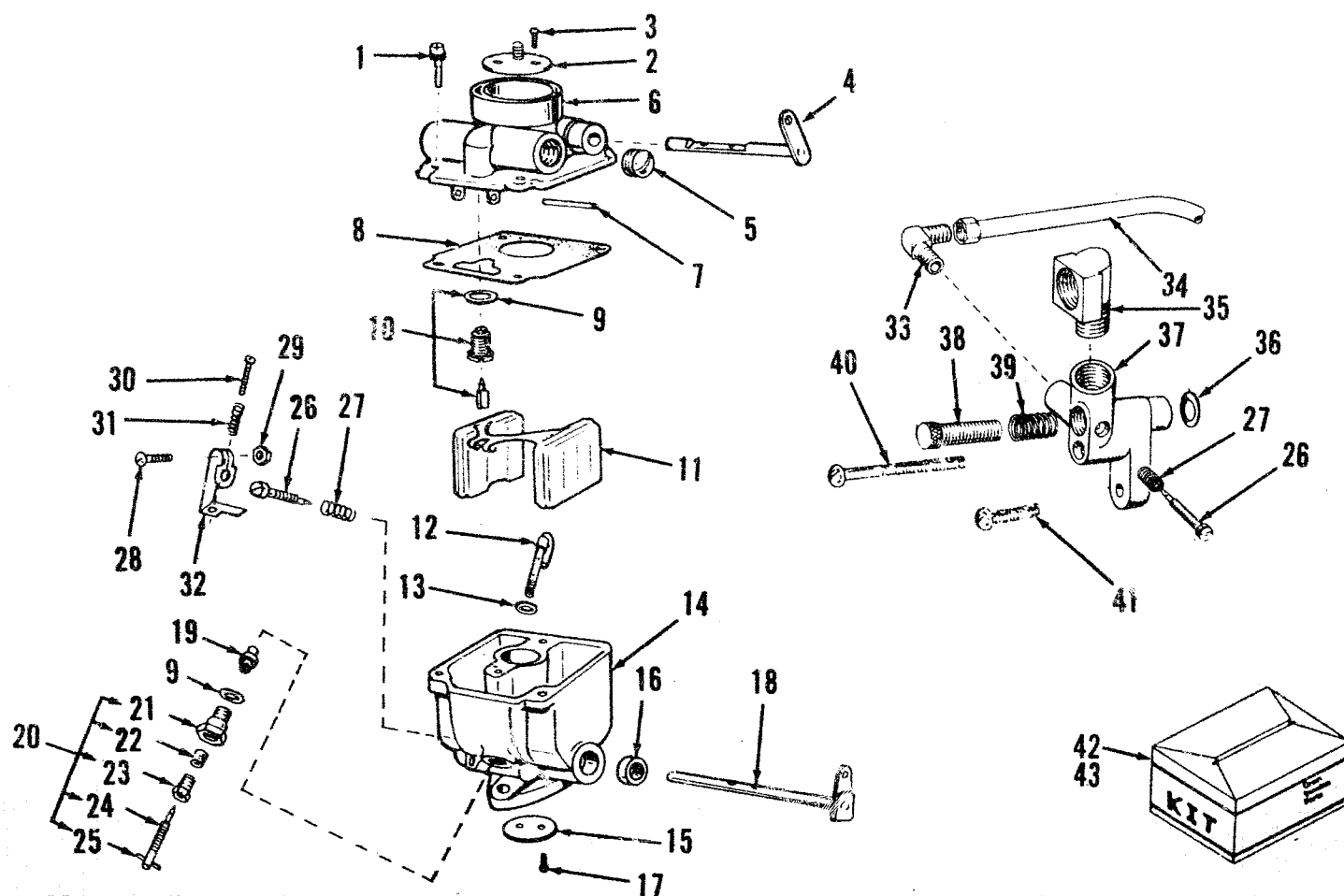
Gas Carburetor Components (Begin Spec L)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	142-0632	1	Carburetor - Complete (Includes Mounting Gasket)	13	815-0072	2	Screw, Machine - Oval Head (#4-40 x 1/4")
	145-0438	1	*Gasket, Carburetor Mounting	14	142-0369	1	Fly, Throttle
1	813-0103	1	Screw, Machine - Round Head (#10-32 x 3/4")	15	148-0017	1	*Gasket, Plug
2	145-0008	1	Lever, Idle Stop	16	142-0015	1	Plug, Body
3	142-0035	1	Spring, Throttle Stop	17	502-0034	1	Elbow, Idle Line to Adapter
4	812-0063	1	Screw, Machine - Round Head (#6-32 x 1/2")	18	149-0030	1	Line, Idle
5	870-0053	1	Nut, Hex (#10-32)	19	502-0732	1	Elbow, Adapter
6			Screw, Machine - Fillister Head	20	809-0091	1	Gasket, Adapter Mounting
	815-0103	1	#10-24 x 1/2"	21	142-0040	1	Needle, Idle Adjusting
	815-0109	2	#10-24 x 5/8"	22	142-0282	1	Spring, Idle Adjusting Needl
7	505-0008	1	Plug, Pipe - 1/8"	23	148-0126	1	Adapter, Carburetor
8	142-0205	1	Sleeve, Choke (Cover)	24	148-0131	1	Screw, Adapter Adjusting
9	142-0031	1	*Gasket, Cover to Body	25	148-0010	1	Spring, Adapter Adjusting Screw
10			Body, Carburetor (Not Sold Separately)	26	812-0088	1	Screw, Machine - Round Head (#8-32 x 1-3/4")
11	142-0343	2	Bushing, Throttle Shaft	27	812-0125	1	Screw, Machine - Round Head (#12-24 x 1/2")
12	142-0368	1	Shaft Assembly, Throttle	28	142-0033	1	Kit, Gasket - Carburetor (Includes Parts Marked *)

* - Parts Included in 142-0033 Gasket Kit.

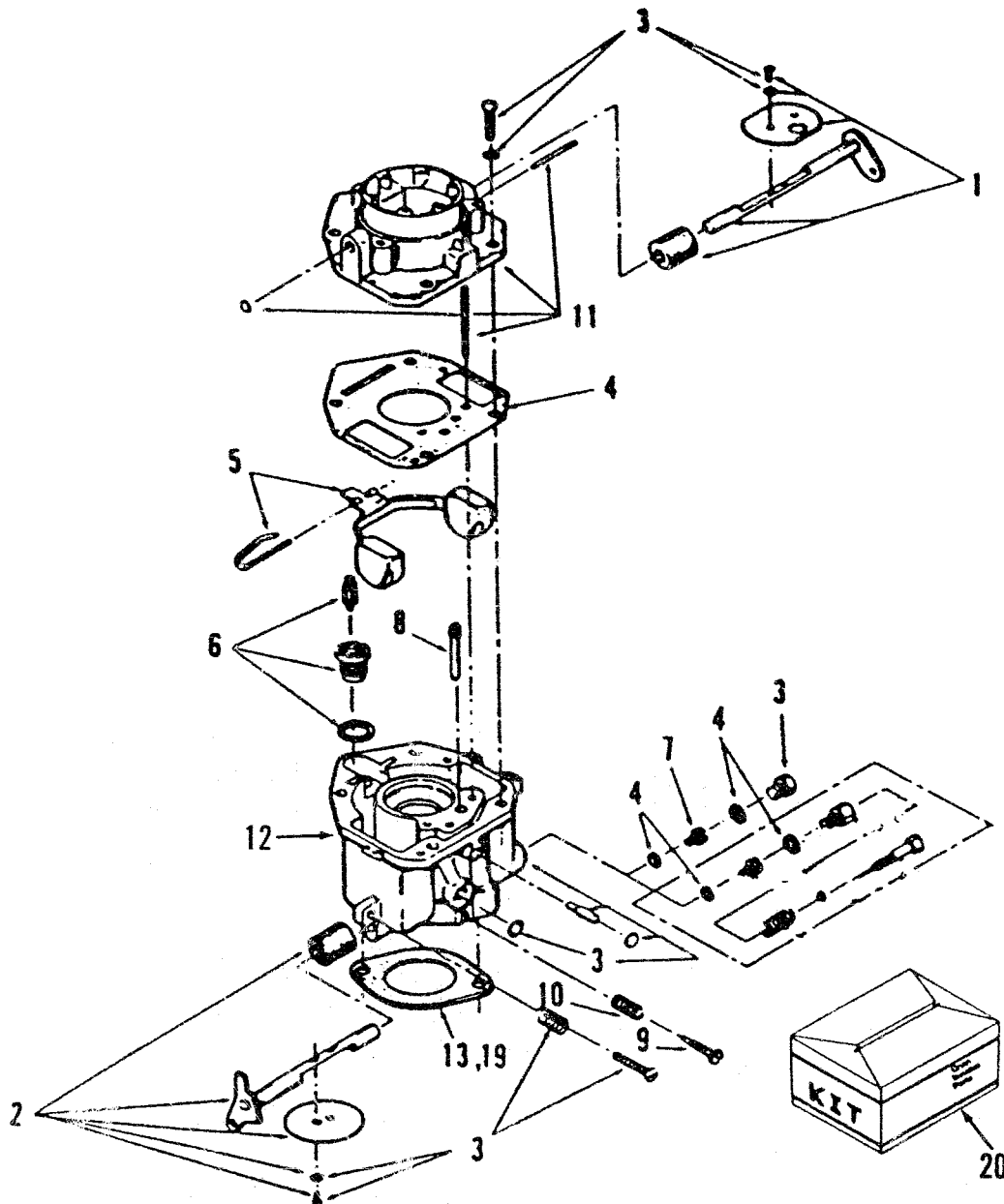
Gas-Gasoline Carburetor Components (Begin Spec L)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	142-0642	1	Carburetor - Complete (Includes Mounting Gaskets)	23	142-0045	1	*Retainer, Main Adjusting Needle Package
1	145-0438	1	+*Gasket, Carburetor Mounting Screw, Machine - Fillister Head	24	142-0041	1	*Needle, Main Adjusting
	815-0103	1	#10-24 x 1/2"	25	516-0027	1	*Pin, Main Adjusting Needle
	815-0109	2	#10-24 x 5/8"	26	142-0040	1	*Needle, Idle Adjusting
2	142-0037	1	Fly, Choke	27	142-0282	1	Spring, Idle Adjusting Needle
3	815-0091	2	*Screw, Machine - Fillister Head (#4-40 x 3/16")	28	813-0102	1	Screw, Machine - Round Head (#10-32 x 5/8")
4	142-0183	1	Shaft Assembly, Choke	29	870-0053	1	Nut, Hex (#10-32)
5	505-0008	1	Plug, Pipe (1/8")	30	812-0063	1	*Screw, Machine - Round Head (#6-32 x 1/2")
6	142-0205	1	Sleeve Assembly, Choke (Cover)	31	142-0035	1	Spring, Throttle Stop Adjusting Screw
7	142-0039	1	*Shaft, Float	32	145-0008	1	Lever, Throttle Stop
8	142-0031	1	+Gasket, Body to Sleeve	33	502-0034	1	Elbow, Idle Line to Adapter
9	148-0017	2	+*Gasket	34	149-0030	1	Line, Idler
10	142-0049	1	*Valve and Seat Assembly	35	502-0732	1	Elbow, Adapter
11	142-0361	1	Float and Lever	36	509-0091	1	Gasket, Adapter Mounting
12	142-0604	1	Nozzle	37	148-0126	1	Adapter, Gas
13	142-0032	1	+Gasket, Nozzle	38	148-0131	1	Screw, Adapter Adjusting
14		1	Body Assembly (Lower) - Not Sold Separately	39	148-0010	1	Spring, Adapter Adjusting Screw
15	142-0369	1	Fly, Throttle	40	812-0088	1	Screw, Machine - Round Head (#8-32 x 1-3/4")
16	142-0343	2	Bushing, Throttle Shaft	41	812-0125	1	Screw, Machine - Round Head (#12-24 x 1/2")
17	815-0072	2	*Screw, Machine - Oval Head (#4-40 x 3/16")	42	142-0602	1	Kit, Repair - Carburetor (Includes Parts Marked *)
18	142-0368	1	*Shaft, Throttle	43	142-0033	1	*Kit, Gasket - Carburetor (Includes Parts Marked +)
19	142-0370	1	Nut and Jet, Nozzle				
20	142-0042	1	Needle Assembly (Includes Parts Marked *)				
21	142-0046	1	*Retainer, Main Adjusting Needle				
22	142-0206	1	*Packing, Main Adjusting Needle				

* - Parts Included in 142-0602 Repair Kit.
+ - Parts Included in 142-0033 Gasket Kit.
* - Parts Included in 142-0042 Needle Assembly.

Carburetor Components
Gasoline - Mikki
(Spec R)

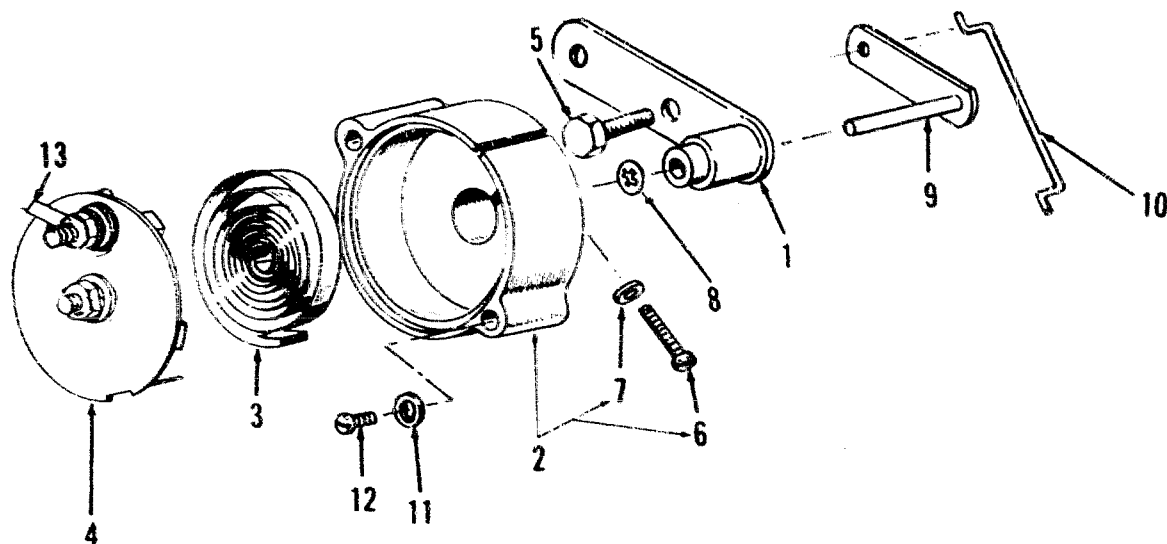


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	146-0440	1	Carburetor, Complete (Includes Mounting Gasket) - Begin Spec R
1	146-0417	1	Kit, Choke - Shaft
2	146-0418	1	Shaft, Throttle
3	146-0322	1	*Kit, Screw and Plug
4	146-0326	1	*Kit, Gasket
5	146-0325	1	Kit, Float
6	146-0329	1	*Kit, Valve and Seat
7	146-0343	1	Jet, Power
8	146-0420	1	Jet, Idle
9	146-0335	1	*Needle, Adjusting - Idle

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
10	146-0331	1	*Spring, Needle - Idle Adjusting
11		1	Intake, Air (Not Sold Separately)
12		1	Body (Not Sold Separately)
13	154-0733	2	*Gasket, Mounting - Carbure
19	145-0438	1	*Gasket, Mounting - Carbure
20	146-0356	1	Kit, Repair (Includes Part Marked *)

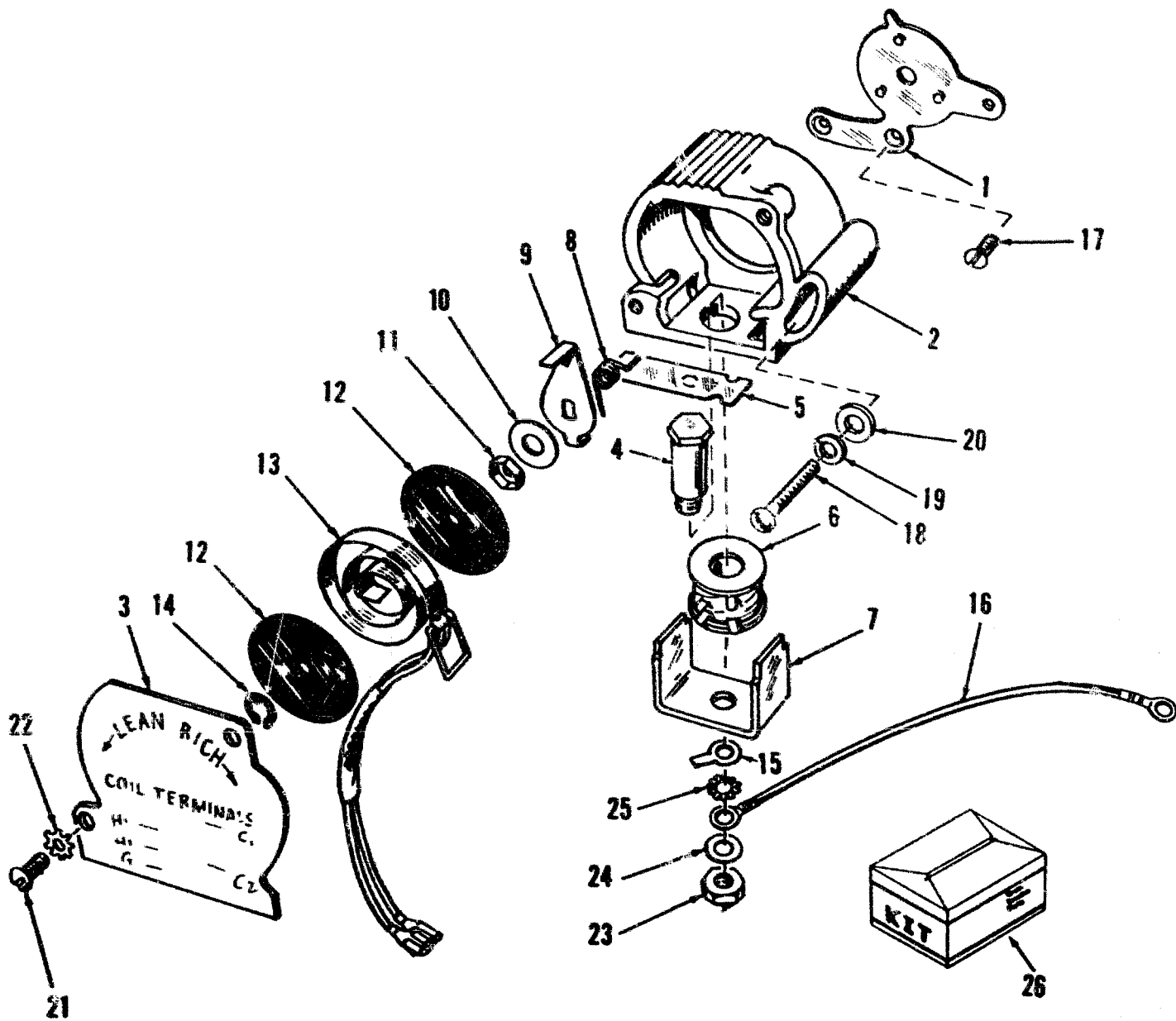
* - Parts Included in 146-0356 Repair Kit.

Electric Choke Begin Spec P



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	153-0509	1	Bracket, Choke	7	850-0030	1	Washer, Lock - Spring (#10)
2	153-0440	1	Housing, Choke (Includes Washer and Screw)	8	518-0387	1	Ring, Retaining
3	153-0017	1	Element, Bimetal	9	146-0241	1	Shaft, Choke
4	153-0114	1	Cover (12 Volt)	10	153-0511	1	Link, Choke
5	821-0004	2	Screw, Cap - Hex Head Locking (#10-32 x 5/16")	11	526-0062	2	Washer, Flat - Special
6	815-0110	1	Screw, Machine - Fillister Head (#10-32 x 7/8")	12	815-0285	2	Screw, Machine - Round Head W/ET (#8-32 x 5/16")
				13	332-0527	1	Terminal, Cover - Choke

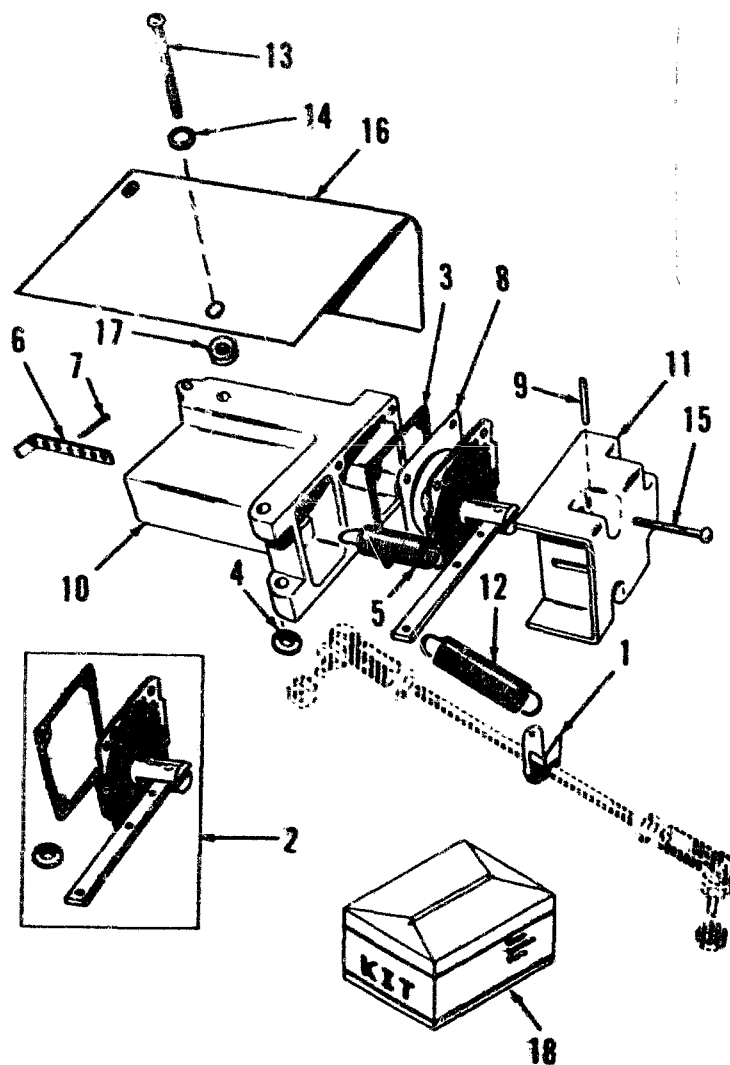
Thermo-Magnetic Choke (Spec A Through F)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	153-0385	1	Plate, Mounting
2	153-0386	1	Body
3	153-0389	1	Cover
4	153-0391	1	Core, Solenoid
5	153-0395	1	Armature
6	307-1203	1	Coil, Solenoid
7	153-0392	1	Frame, Solenoid
8	153-0387	1	Spring
9	153-0390	1	Lever, Thermostat
10	526-0018	1	Washer, Flat (1/4" Screw)
11	870-0134	1	Palnut (1/4-20)
12	153-0399	2	Insulator
13	153-0400	1	Heater
14	518-0129	1	Ring, Retaining
15	332-0876	1	Terminal, Ground
16			Lead, Choke
	336-1550	1	Choke to Ground
	336-1549	1	Choke Solenoid Ground

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
17	815-0161	2	Screw (10-32 x 7/8") - Plate Mounting
18	813-0107	1	Screw (10-32 x 1-1/4"), Round Head - Choke Adjustment
19	850-0030	1	Washer, Lock (#10)
20	526-0008	1	Washer, Flat (#10)
21	812-0076	2	Screw (8-32 x 5/16") Round Head - Cover Mounting
22	854-0007	2	Screw (8-32 x 5/16") Round Head - Cover Mounting
23	864-0002	1	Nut (5/16-18), Jam - Choke Coil
24	526-0002	1	Washer, Flat (#8)
25	854-0017	1	Washer, Shakeproof IT (#8)
26	153-0429	1	Kit, Choke Replacement (Includes Complete Choke - Less Leads)

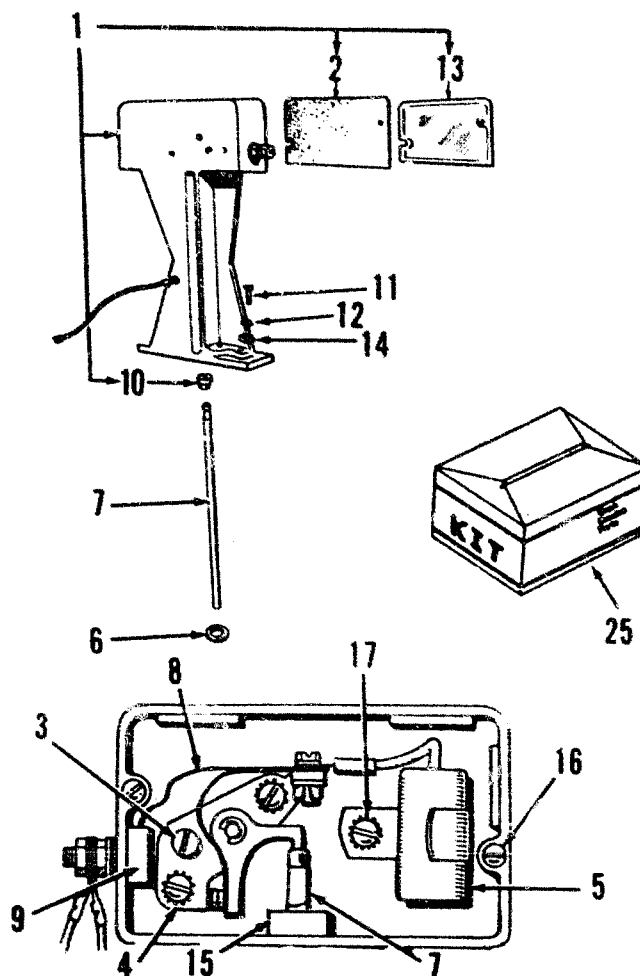
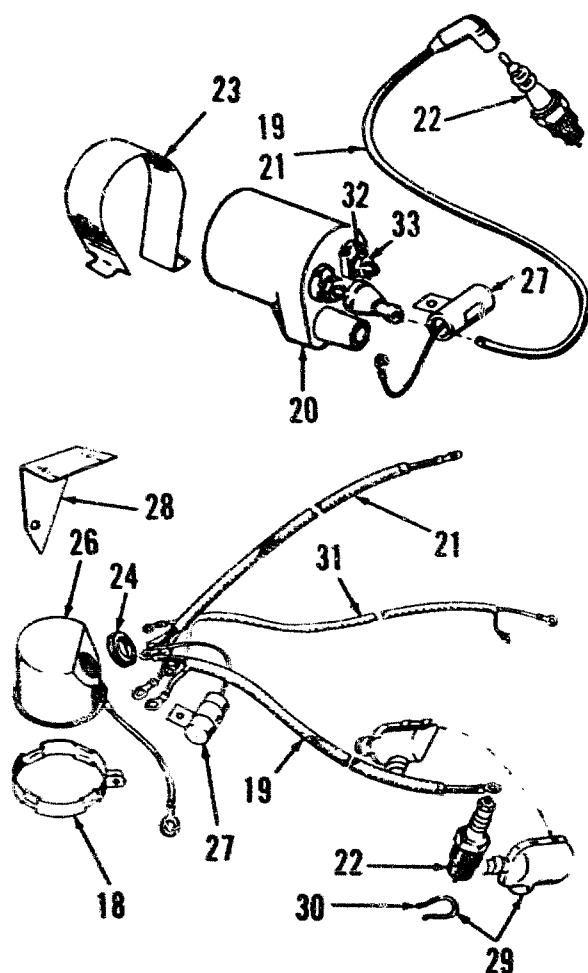
Vacuum Speed Booster (Spec A Through F)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-0430	1	Bracket, Spring to Governor Link	11		1	*Cover, Vacuum Booster Housing (Not Sold Separately)
2	150-1031	1	*Kit, Diaphragm Replacement (Includes Gaskets)	12	150-0471	1	*Spring, External
3	150-0668	1	*Gasket, Diaphragm Plate	13	813-0111	2	Screw (10-32 x 2-1/4")
4	150-0425	1	*Gasket, Booster to Manifold				Booster Mounting
5	150-1354	1	*Spring, Internal	14	853-0008	2	Washer, Lock - ET (#10)
6	150-0376	1	*Bracket, Internal Spring Adjustment	15	815-0148	4	*Screw (8-32 x 7/8")
7	516-0039	1	*Pin, Cotter (3/32 x 5/8")	16	150-1332	1	Shield, Heat
			Adjusting Bracket	17	526-0196	2	Washer, Flat (#10)
8	150-0666	1	*Plate, Diaphragm	18	150-1030	1	Kit, Vacuum Speed Booster Replacement (Includes Parts Marked *)
9	516-0085	1	*Pin (3/32 x 3/4") - Diaphragm Lever Pivot				
10		1	*Housing, Vacuum Booster (Not Sold Separately)				

* - Parts Included in 150-1030 Vacuum Speed Booster Replacement Kit.

Ignition (Spec A Through K)

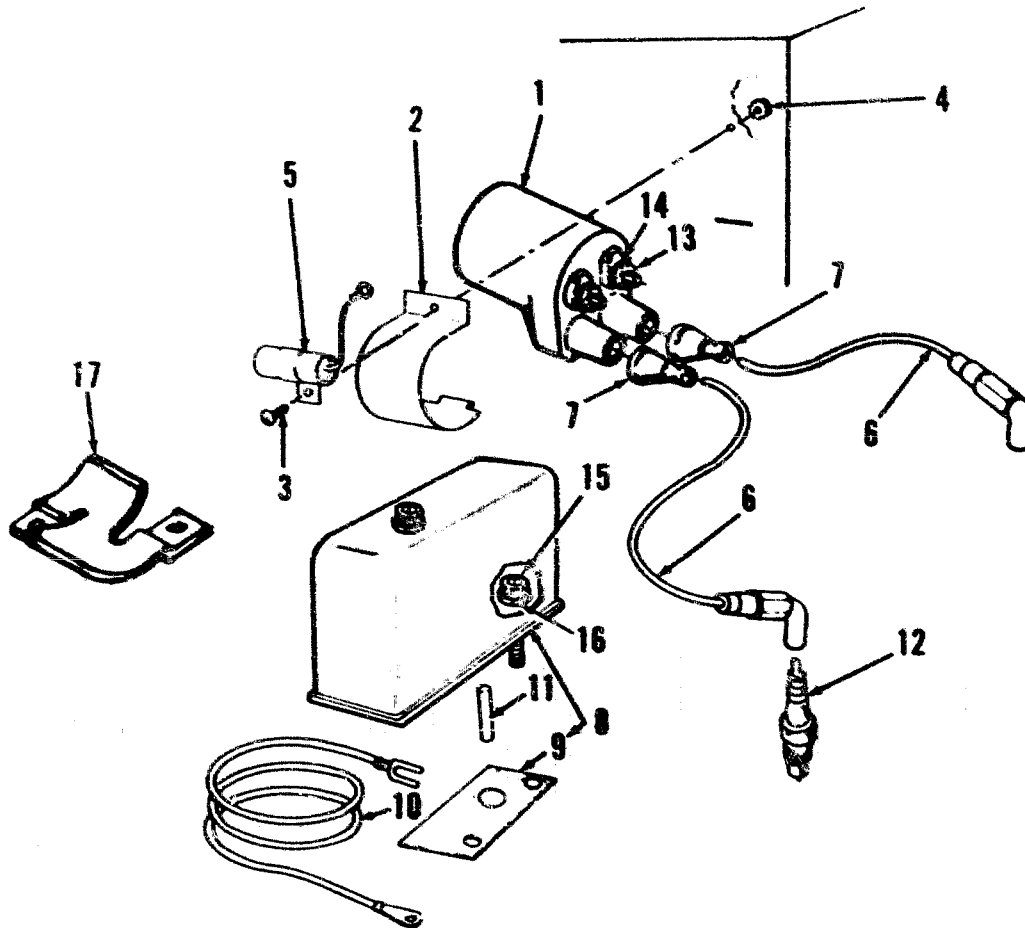


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	160-1135	1	Box, Breaker (Includes Parts Marked *)
2	160-0150	1	*Gasket, Breaker Box Cover
3	160-0075	1	*Cam, Point Gap Adjusting
4	160-0002	1	*Point Set, Breaker
5	312-0069	1	*Condenser, Breaker Points
6	160-1040	1	*Gasket, Breaker Box Mounting
7	160-0723	1	*Plunger
8	160-0428	1	*Strap, Point Set to Terminal Block
9	160-0349	1	*Block and Terminal
10	160-1041	1	*Bushing, Breaker Box (Bottom)
11	802-0035	2	*Screw, Socket Head (1/4-20 x 7/8")
12	850-0040	2	*Washer, Lock - Spring (1/4")
13	160-0930	1	*Cover, Breaker Box
14	526-0214	2	*Washer, Flat (1/4")
15	160-0931	1	*Guide, Plunger
16	812-0077	2	*Screw, Round Head (#8-32 x 3/8")
17	815-0285	3	*Screw, Round Head - With Shakeproof Washer (#8-32 x 5/16")
18	166-0541	1	Clamp, Coil - Spec A Through C
19	167-1537	1	Cable, Spark Plug - Right Side Spec A Through C
	167-1595	1	Spec D Through K

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
20	166-0772	1	Coil, Ignition (T1)
21	167-1602	2	Cable, Spark Plug
22	167-0241	2	Plug, Spark
23	166-0588	1	Clamp, Coil - Begin Spec D
24	508-0001	1	Grommet - Ignition Coil Cover - Spec A Through C
25	160-0836	1	Kit, Ignition Tune-Up (Includes Parts Marked #)
26	166-0563	1	Cover, Ignition Coil - Spec A Through C
27	312-0027	1	Condenser - .5 MFD - Coil Suppression (C1)
28	166-0519	1	Bracket, Timing - Vacu-Flo Cooled Sets
29	167-0067	2	Shield, Spark Plug (Include Clamp) Spec A Through C
30	167-0064	2	Clamp, Shield - Spec A Through C
31	336-1899	1	Lead - Shielded
32	850-2005	2	Washer, Lock - Spring (M5)
33	166-0554	2	Nut, Hex - Special

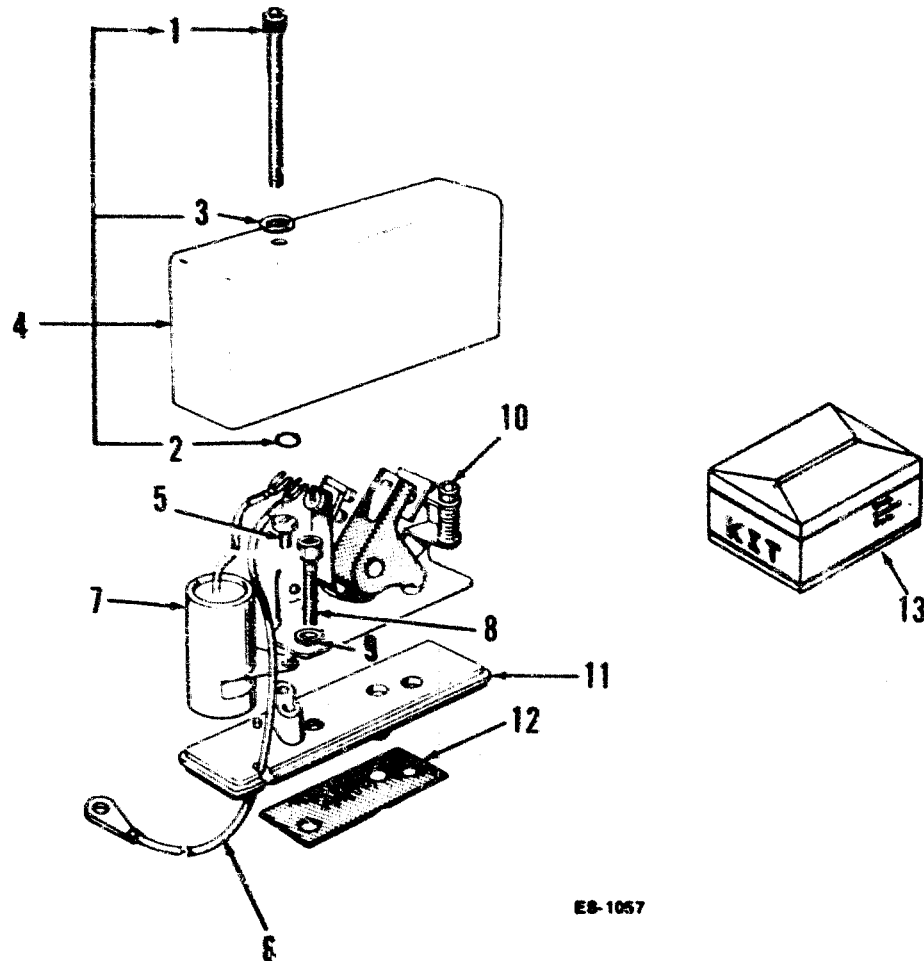
- Parts Included in 160-0836 Ignition Tune Up Kit
* - Parts Included in 160-1135 Breaker Box.

Ignition (Begin Spec L)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	166-0772	1	Coil, Ignition (T1)	10	336-2378	1	Lead, Coil to Breaker Points
2	166-0588	1	Clamp, Coil	11	160-1151	1	Plunger, Breaker Points
3	821-0004	1	Screw, Cap - Hex Washer Head (#10-32 x 5/16")	12	167-0292	2	Spec L Thorough N
4	870-0131	1	Nut, Hex - With ET (#10-32)		167-0263	2	Begin Spec P
5	312-0017	1	Condenser (C1)	13	166-0554	2	Nut, Hex (Metric)
6	167-1602	2	Cable, Spark Plug	14	850-2005	2	Washer, Lock - Spring (M5)
7	160-0558	2	Nipple, Spark Plug Cable	15	802-0034	2	Screw, Cap - Socket Head (1/4-20 x 3/4")
8	160-1303	1	Box, Breaker (See Separate Page for Components) (Includes Mounting Gasket)	16	850-0038	2	Washer, Lock - Spring (1/4")
9	160-1150	1	Gasket, Breaker Box Mounting	17	166-0741	1	Bracket, Coil - Ignition - Begin Spec P

Breaker Box Components (Begin Spec L)

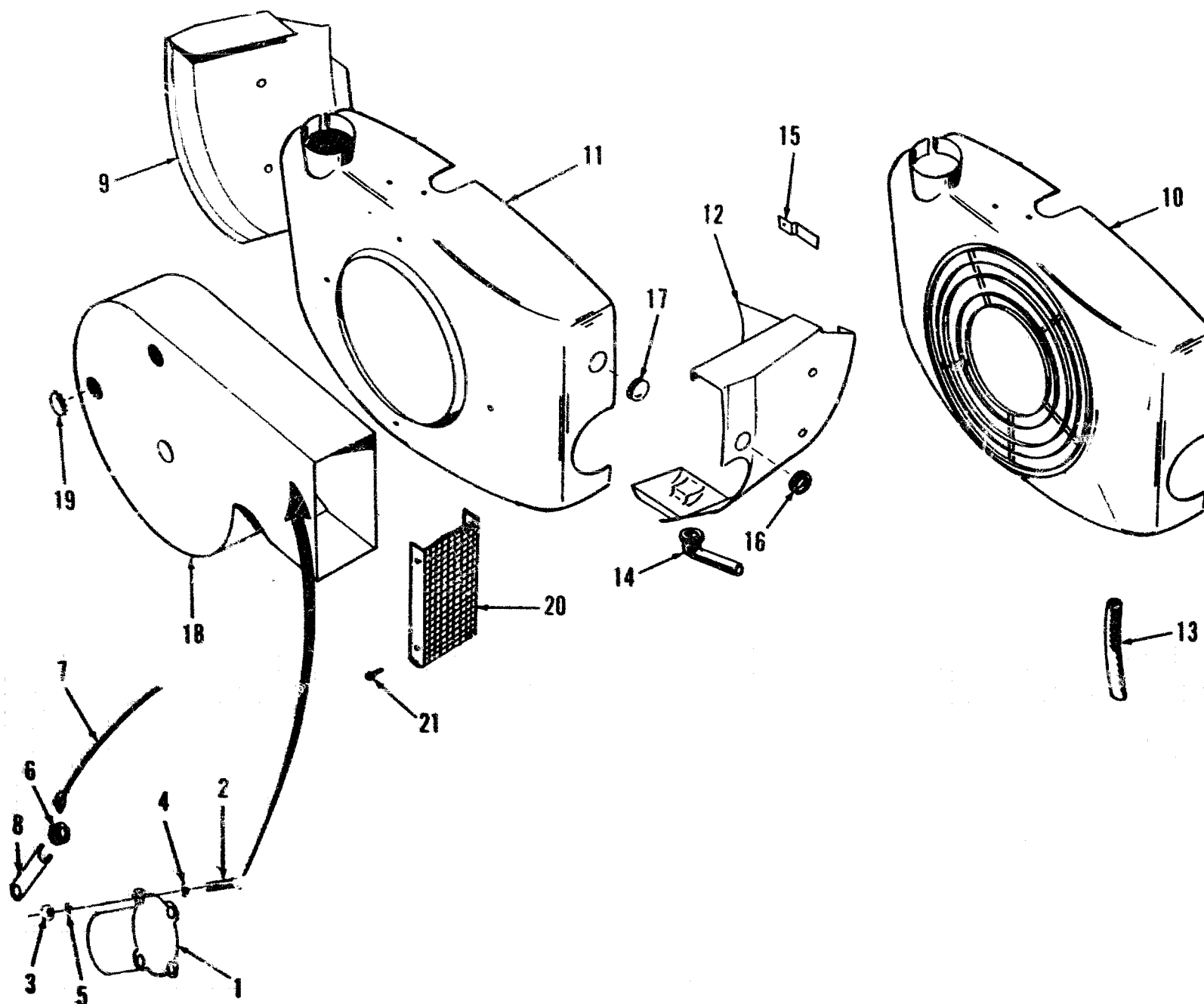


ES-1057

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	160-1303	1	Box, Breaker - Complete (Includes Plunger and Parts Marked *)	8	802-0034	2	*Screw, Cap (1/4-20 x 3/4") Socket Head
1	802-0022	1	*Screw, Cap - Hex Socket (#10-24 x 1-1/2")	9	850-0040	2	*Washer, Lock (1/4")
2	509-0065	1	*Retainer ("O" Ring)	10	160-1183	1	*Point Set, Breaker
3	526-0008	1	*Washer, Flat (#10 Screw)	11	160-1219	1	*Base, Breaker
4	160-1285	1	*Cover, Breaker Box	12	160-1368	1	*Gasket, Breaker Box
5	815-0358	1	*Screw Cap (#8-32 x 5/16") Slotted	13	160-1311	1	Kit, Ignition Tune-Up (Includes Points and Condenser)
6	336-2378	1	Lead, Breaker Box to Coil				
7	312-C246	1	*Condenser				

* - Parts Included in 160-1303 Breaker Box.

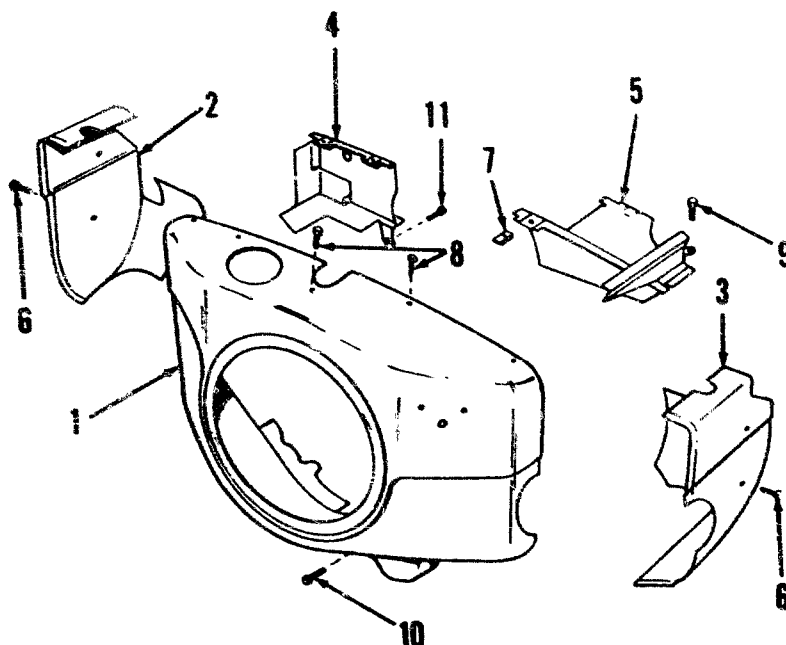
Air Housing (Spec A Through K)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	309-0077	1	Switch, High Temperature (S4)	13	503-0391	1	Hose, Oil Drain - Early Models
2	812-0061	2	Screw, Machine - Hex Head (#6-32 x 3/8")	14	122-0345	1	Hose, Oil Drain - Late Models
3	860-0005	2	Nut, Hex (#6-32)	15	134-0599	1	Clip, Cylinder Air Housing
4	856-0001	4	Washer, Lock - EIT (#6)	16	508-0162	1	Grommet, Rubber
5	508-0056	2	Washer, Fiber	17	517-0035	1	Plug, Dot Button (1-1/16" Hole) Vacu-Flo Cooled Units Scroll, Blower Housing
6	508-0031	1	Grommet, Rubber	18	134-3051	1	Sets Without Rope Sheave Hole (Includes Parts Marked *)
7	336-1252	1	Lead - Switch		134-2129	1	Sets With Rope Sheave Hole
8	160-0144	1	Strap, Copper - Switch	19	517-0021	2	Plug, Dot Button (7/8" Hole)
9	134-2141	1	Housing, Cylinder Air - Left Side	20	134-3013	1	*Guard, Outlet
10	134-2076	1	Housing, Blower - Pressure Cooled Units Spec A Through C	21	815-0421	4	*Screw, Tapping - Hex Head with External Tooth Lockwasher (#10-16 x 1/2")
	134-2558	1	Housing, Blower - Vacu-Flo Cooled Units Spec D Through K				
11	134-2127	1	Housing, Cylinder Air - Right Side Spec A Through C				
	134-2560	1	Housing, Cylinder Air - Right Side Spec D Through K				
12	134-2142	1	Housing, Cylinder Air - Right Side				

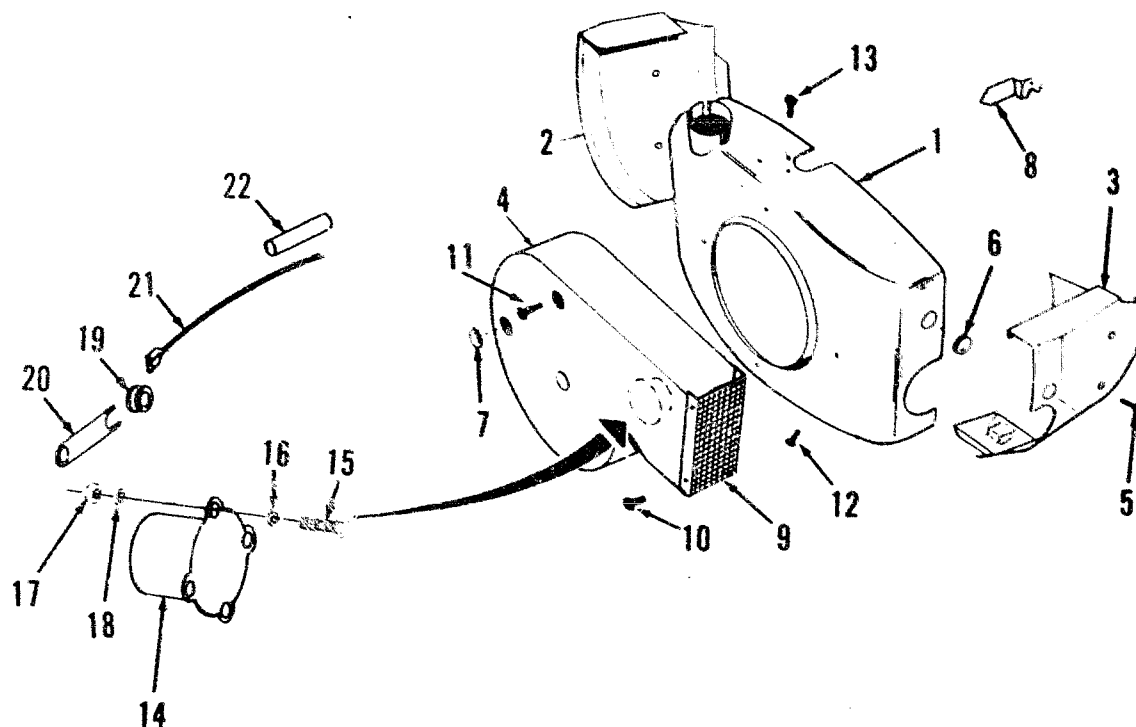
* - Parts Included in 134-3051 Blower Housing Scroll.

**Air Housing
(Standard)
(Begin Spec L)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	134-3788	1	Housing, Blower Spec L Through N	5	134-2484	1	Baffle, Blower Housing - Right Side
	134-3899	1	Begin Spec P	6	815-0474	4	Screw, Self-Tapping - Round Head (1/4-20 x 1/2")
2			Housing, Cylinder Air - Left Side	7	870-0107	4	Nut, Speed (#14)
	134-2489	1	Spec L Through N	8	821-0010	2	Screw, Self Locking - Hex Head (1/4-20 x 1/2")
	134-3580	1	Begin Spec P	9	815-0261	1	Screw, Self Tapping - Hex Head (1/4-20 x 1/2")
3			Housing, Cylinder Air - Right Side	10	815-0261	4	Screw, Self Tapping - Hex Head (1/4-20 x 1/2")
	134-2490	1	Spec L Through N	11	815-0370	4	Screw, Self Tapping - Hex Head (1/4-20 x 1/2")
	134-3579	1	Begin Spec P				
4	134-2487	1	Baffle, Blower Housing - Left Side				

**Air Housing
(With Vacu-Flo Cooling)
(Spec L Through N)**

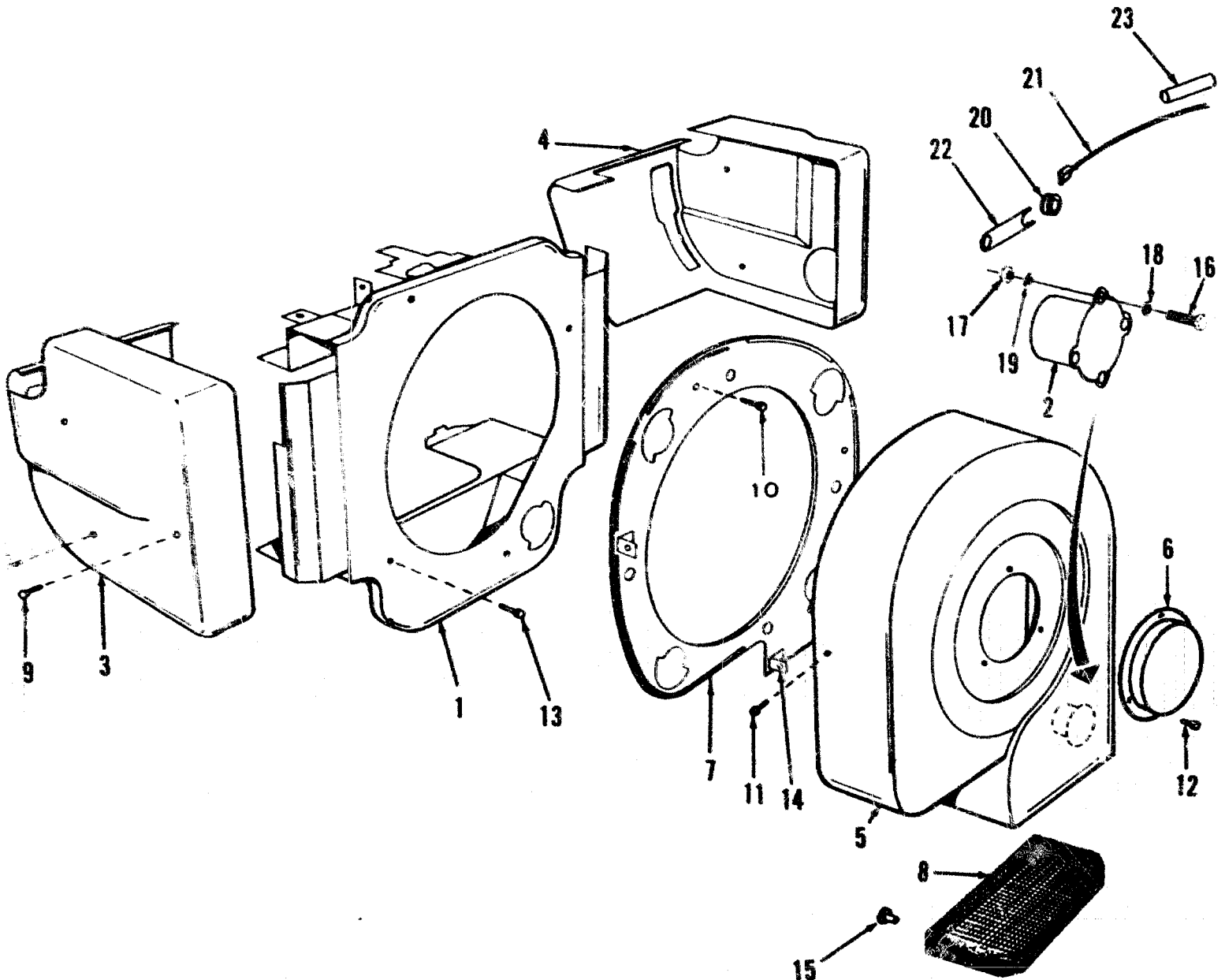


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	134-3039	1	Housing, Blower
2	134-2141	1	Housing, Cylinder Air - Left Side
3	134-2142	1	Housing, Cylinder Air - Right Side
4			Scroll, Blower Housing
	134-3051	1	Standard (Includes Parts Marked #)
	134-2528	1	Use with High Temperature Switch
5	815-0261	4	Screw, Tapping - Hex Washer Head (1/4-20 x 1/2")
6	517-0035	1	Button, Dot - Timing Hole (1-1/16" Hole)
7	517-0021	2	Button, Dot - Scroll (5/16" Hole)
8	166-0519	1	Bracket, Timing
9	134-3013	1	#Guard, Scroll Outlet
10	815-0421	4	#Screw, Tapping - Hex Head (#10-16 x 1/2")

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
11	821-0008	4	Screw, Cap - Hex Washer Head (1/4-20 x 5/16")
12	821-0010	3	Screw, Cap - Hex Washer Head (1/4-20 x 1/2")
13	815-0337	1	Screw, Tapping - Hex Washer Head (1/4-20 x 3/4")
14	309-0077	1	Switch, High Temperature (S4)
15	815-0472	2	Screw, Machine - Hex Head (#6-32 x 3/8")
16	856-0001	4	Washer, Lock - EIT (#6)
17	860-0005	2	Nut, Hex (#6-32)
18	508-0056	2	Washer, Fiber
19	508-0031	1	Grommet, Rubber
20	160-0144	1	Strap, Copper
21	336-5094	1	Lead - Switch
22	332-0556	1	Connector - High Temperature Switch

- Parts Included in 134-3051 Blower Housing Assembly.

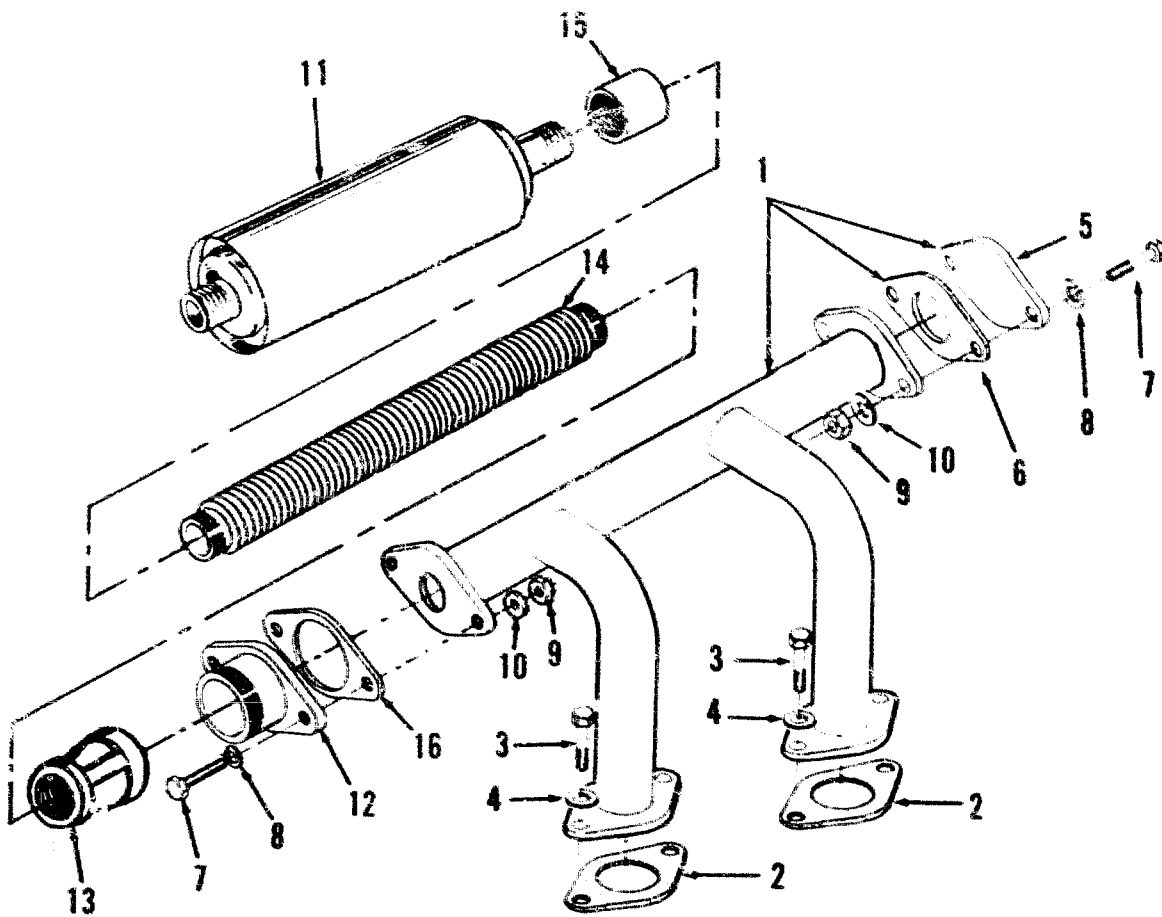
**Air Housing
(With Vacu-Flo Cooling)
(Begin Spec P)**



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	134-4095	1	Housing, Blower	11	821-0010	5	Screw, Cap - Hex Washer He. (1/4-20 x 3/8")
2	309-0077	1	Switch, High Temperature (S4)	12	821-0009	3	Screw, Self-Locking - Hex Head (1/4-20 x 3/8")
3	134-3617	1	Housing, Cylinder Air - Left Side	13	815-0261	4	Screw, Tapping - Hex Head (1/4-20 x 7/16")
4	134-3618	1	Housing, Cylinder Air - Right Side	14	134-2762	3	*Strap, Scroll Guard
5	134-2761	1	Scroll, Blower Housing Standard (Includes Parts Marked *)	15	818-0175	6	*Rivet, Scroll Guard
	134-3381	1	Use with High Temperature Switch	16	815-0472	2	Screw, Hex Head (#6-32 x 3, 1/2")
	134-2749	1	Key 9	17	860-0005	2	Nut, Hex (#6-32)
6	134-3119	1	Cover, Scroll	18	856-0001	4	Washer, Lock - EIT (#6)
7	134-2747	1	Backplate, Scroll	19	508-0056	2	Washer, Flat (Fiber)
8	134-2763	1	* Mesh	20	508-0031	1	Grommet, Rubber
	134-4316	1	Wire - Key 9	21	336-5094	1	Lead - High Temperature Sw
9	821-0010	2	Screw, Self-Locking - Hex Head (1/4-20 x 1/2")	22	160-0144	1	Strap, Copper
10	821-0010	4	Screw, Self-Locking - Hex Head (1/4-20 x 1/2")	23	332-0556	1	Connector - High Temperature Switch

* - Parts Included in 134-2761 Blower Housing Scroll

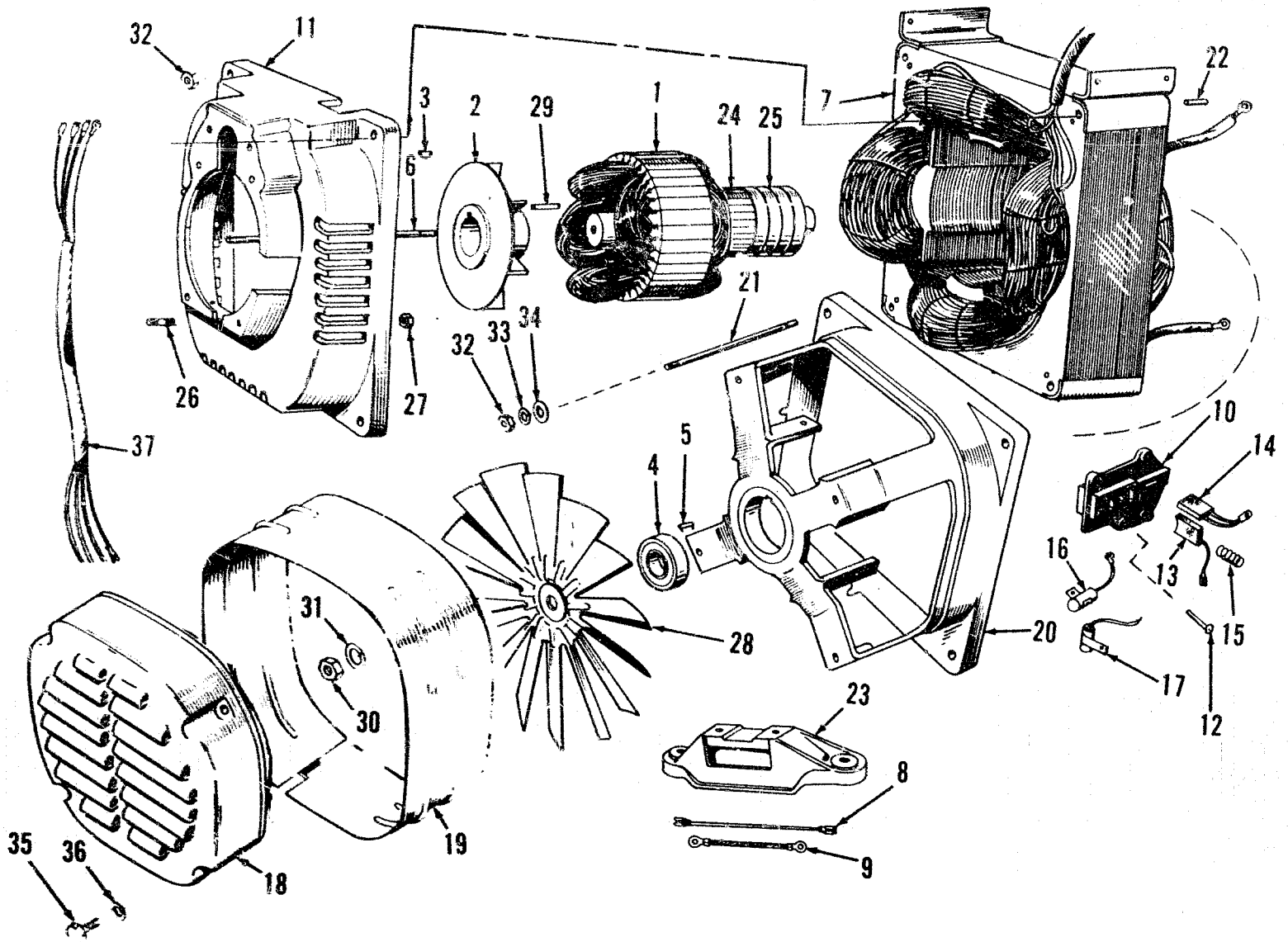
Exhaust (Begin Spec L)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	154-2082	1	Manifold, Exhaust (Includes Parts Marked *)	10	526-0115	4	*Washer, Flat (5/16" Screw)
2	154-2747	2	Gasket, Exhaust Manifold	11	155-0077	1	Muffler Standard
3	800-0512	4	Screw, Cap - Hex Head (5/16-18 x 1")		155-0360	1	Critical
4	950-0045	4	Washer, Lock - Spring (5/16")	12	154-2145	1	Flange, Exhaust
5	154-2081	1	*Cap, Exhaust Manifold	13	505-0036	1	Reducer, Coupling (1-1/4" x 1-1/2")
6	154-2061	1	*Gasket, Exhaust Manifold Cap	14	155-2355-03	1	Tubing, Flex
7	800-0028	4	*Screw, Cap - Hex Head (5/16-18 x 1")	15	505-0031	1	Coupling (1-1/2")
8	850-0045	4	*Washer, Lock - Spring (5/16")	16	154-2800	1	Gasket, Flange - Exhaust
9	862-0015	4	*Nut, Hex (5/16-18)				

* - Parts Included in the 154-2082 Exhaust Manifold.

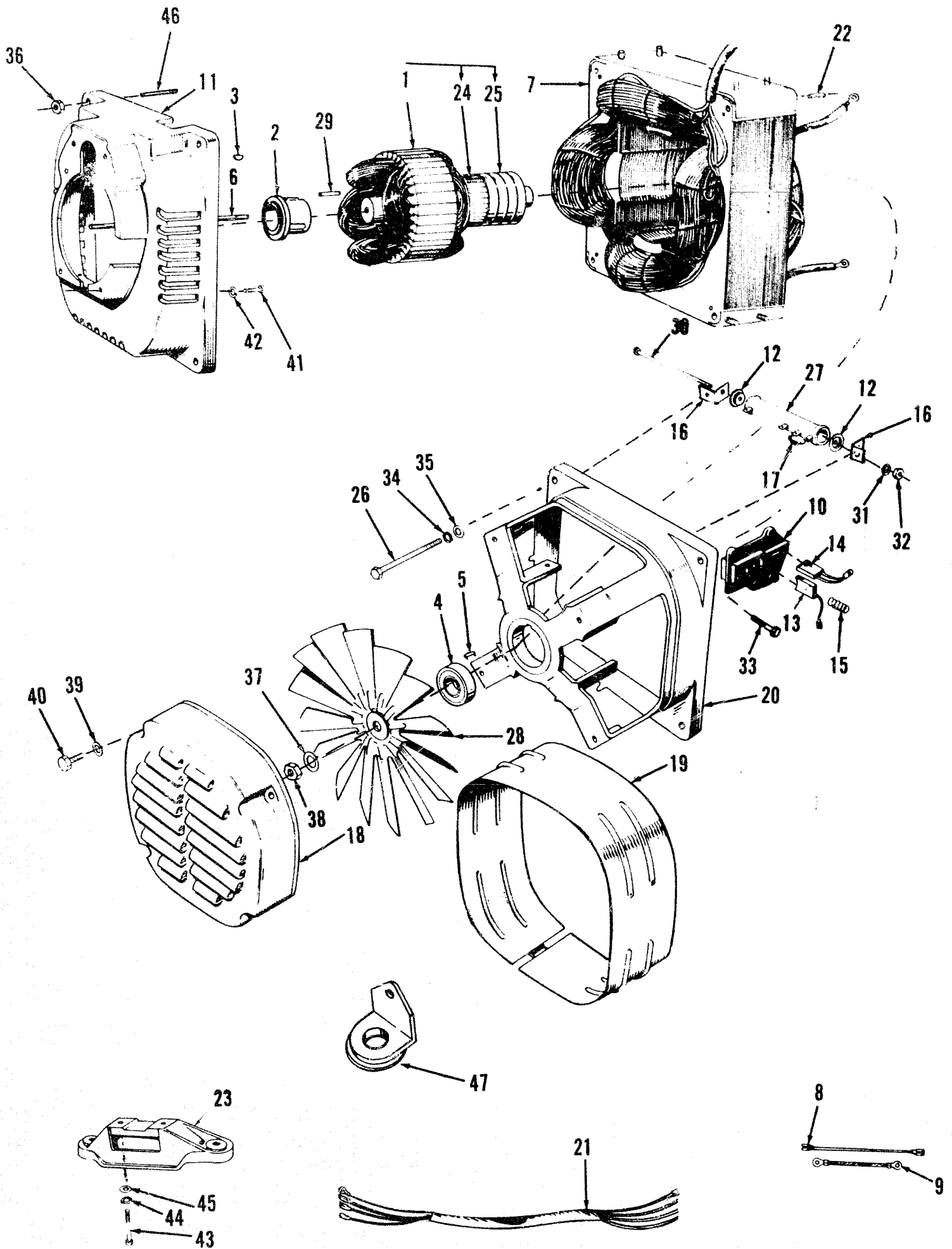
Generator
(Spec A Through C)



Generator (Spec A Through C)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Rotor Assembly, Wound	17	312-0058	3	Condenser (.1 Micro farad)
	201-1905	1	Key 2	18	232-2107	1	Cover, Generator Fan
	201-2330	1	Key 4	19	234-0362	1	Wrapper, End Bell
	201-1903	1	Key 5	20	211-0187	1	Bell, End
	201-1913	1	Key 6	21	520-0730	4	Stud, Generator Through
	201-1706	1	Key 7	22	516-0182	8	Pin (Roll), Generator Frame (1/4 x 3/4")
	201-1914	1	Key 8				
2	232-2108	1	Hub, Drive	23	232-2109	1	Support, Generator
3	515-0006	1	Key, Rotor to Crankshaft	24	203-0151	1	Commutator
4	510-0047	1	Bearing (Ball), Rotor	25	204-0110	1	Ring, Collector
5	232-0596	1	Clip, Bearing Stop	26	520-0737	4	Stud (3/8-24 x 2") Adapter Mounting
6	520-0733	1	Stud, Rotor Through				
7	220-1476	1	Stator, Wound	27	104-0091	4	Nut, Hex - Special - Adapter Mounting
8			Lead, Brush				
	336-1891	4	Blade Type Terminals (9")	28	205-0090	1	Fan, Generator
	336-1890	1	Blade Type and Round Type Terminal (4")	29	515-0007	1	Key, Drive Hub
				30	870-0203	1	Nut, Hex (7/16-20)
9	336-0186	2	Ground, Jumper (3-1/2")	31	850-0055	1	Washer, Lock - Spring (7/16
10			Block, Brush	32	862-0015	8	Nut, Hex (5/16-18) - Generator Through Stud
	212-0359	2	Bottom and Right Side Positions	33	850-0045	4	Washer, Lock - Spring (5/16
	212-0360	2	Top and Left Side Positions	34	526-0115	4	Washer, Flat (5/16" Screw)
11	231-0150	1	Adapter, Generator to Engine	35	815-0441	2	Screw, Tapping - Hex Head (1/4-20 x 1-1/2")
12	815-0359	15	Screw, Tapping - Hex Washer Head (#10-32 x 7/8")	36	850-0040	2	Washer, Lock - Spring (1/4"
13	214-0095	4	Brush, Commutator	37			Harness, Wiring
14	214-0096	8	Brush, Collector Ring		338-0592	1	Key 2,5
15	212-1232	12	Spring, Brush		338-0591	1	Key 4,6,7,8
16	312-0017	2	Condenser (.5 Micro farad)				

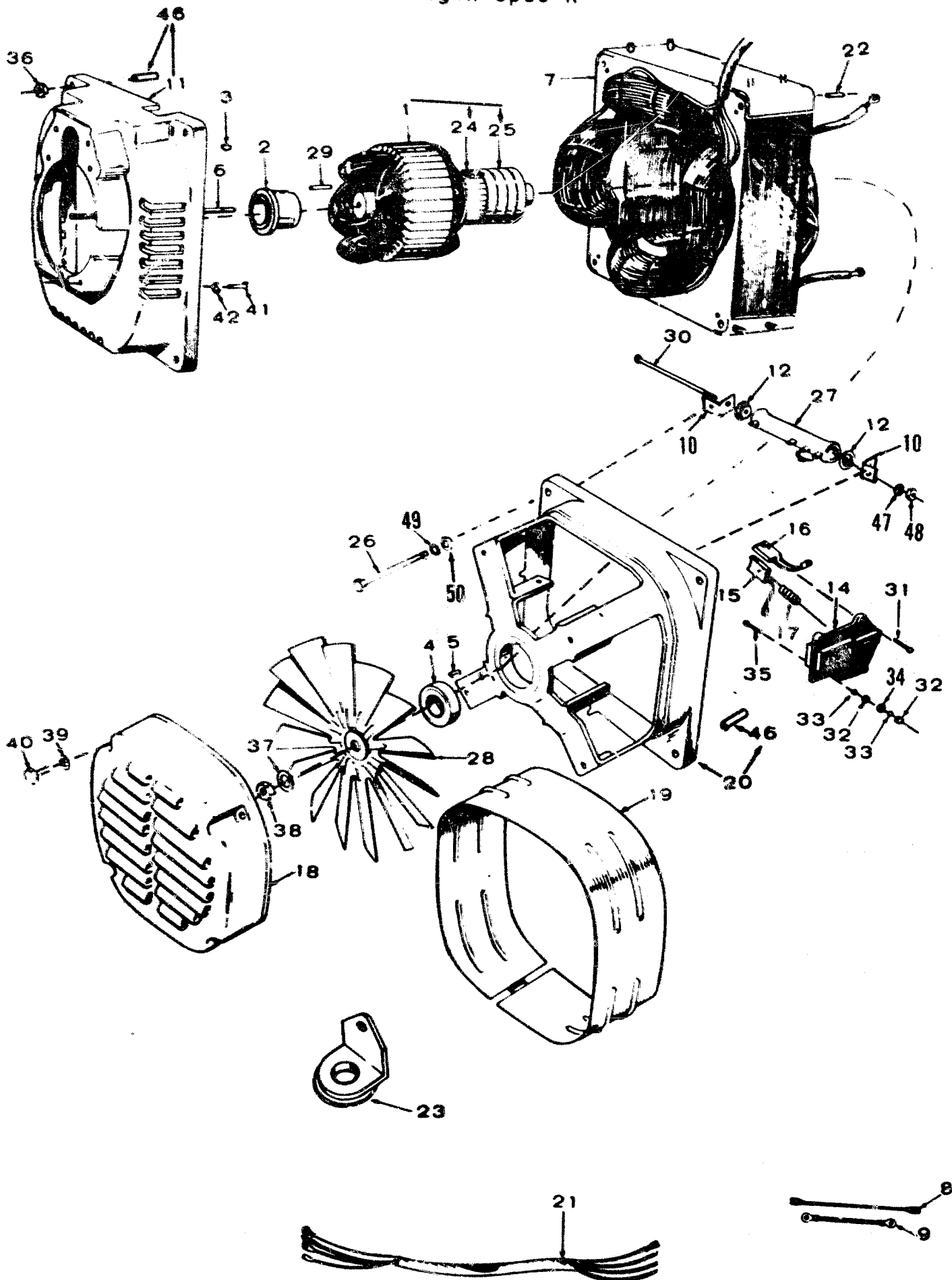
Generator (Begin Spec D)



Generator (Begin Spec D)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Rotor, Wound (Includes Commutator and Collector Ring)	18	232-2107	1	Cover, Generator Fan
			Key 1	19	234-0362	1	Wrapper, End Bell
201-1909	1		Spec D Through K	20			Bell, End
201-2510	1		Begin Spec L		211-0187	1	Spec D Through K
			Key 2		211-0364	1	Begin Spec L (Includes Alignment Pins)
201-1905	1		Spec D Through K	21			Harness, Wiring
201-2506	1		Begin Spec L		338-0642	1	Key 1,2,5
			Key 3		338-0946	1	Spec D Through K
201-2329	1		Spec D Through K				Begin Spec L
201-2518	1		Begin Spec L		338-0643	1	Key 3,4,6,7,8
			Key 4		338-0947	1	Spec D Through K
201-1915	1		Spec D Through K	22	516-0182	8	Begin Spec L
201-2507	1		Begin Spec L				Pin, Roll - Generator Frame (1/4 x 3/4")
			Key 5	23	232-2321	1	Support, Generator - Spec D Through K
201-1903	1		Spec D Through K				Commutator
201-2503	1		Begin Spec L	24			Key 1
			Key 6		203-0153	1	Key 2 through 8
201-1913	1		Spec D Through K		203-0152	1	Collector Ring
201-2512	1		Begin Spec L	25	204-0110	1	Screw, Cap - Hex Head (5/16-18 x 7-1/2")
			Key 7	26	800-0044	4	Resistor, Tapped (R2)
201-1918	1		Spec D Through K				Fan, Generator
201-2513	1		Begin Spec L	27	353-0047	1	Key, Drive Hub
			Key 8	28	205-0090	1	Screw, Machine - Round Head (#10-24 x 5")
201-1914	1		Spec D Through K	29	515-0007	1	Washer, Lock - Spring (#10)
201-2508	1		Begin Spec L	30	812-0118	1	Nut, Hex (#10-24)
2	232-2316	1	Hub, Drive				Screw, Tapping - Hex Washer Head (#10-32 x 7/8")
3	515-0006	1	Key, Rotor to Crankshaft	31	850-0030	1	Washer, Lock - Spring (5/16")
4	510-0047	1	Bearing (Ball), Rotor	32	860-0011	1	Washer, Flat (5/16" Screw)
5	232-0596	1	Clip, Bearing Stop	33	815-0059	15	Nut, Hex (5/16-18)
6	520-0733	1	Stud, Rotor Through				Washer, Lock - Spring (7/16")
7	220-1816	1	Stator, Wound	34	850-0045	4	Nut, Hex (7/16-20)
8			Lead, Brush	35	526-0115	4	Washer, Lock - Spring (1/4")
	336-1891	4	Blade Type Terminals (9")	36	862-0015	4	Screw, Tapping - Hex Washer Head (1/4-20 x 1-1/2")
	336-1890	4	Blade Type and Round Type Terminal (4")	37	850-0055	1	Screw, Cap - Hex Head (3/8-16 x 1")
9	336-0186	3	Jumper, Ground (3-1/2")	38	870-0203	1	Washer, Lock - Spring (3/8")
10			Block, Brush	39	850-0040	2	Washer, Flat (3/8" Screw)
	212-0359	2	Bottom and Right Side Positions	40	815-0441	2	Pin, Alignment
	212-0360	2	Top and Left Side Positions	41	800-0050	4	Support, Generator - Begin Spec P
11	231-0164	1	Adapter, Generator to Engine (Includes Alignment Pins)	42	850-0050	4	
12	304-0015	2	Washer, Centering Resistor	43	800-0051	2	
13	214-0095	4	Brush, Commutator	44	850-0050	2	
14	214-0096	8	Brush, Collector	45	526-0030	2	
15	212-1232	12	Spring, Brush	46	516-0196	4	
16	304-0706	2	Bracket, Resistor Mounting	47	402-0475	2	
17	357-0020	1	Diode				

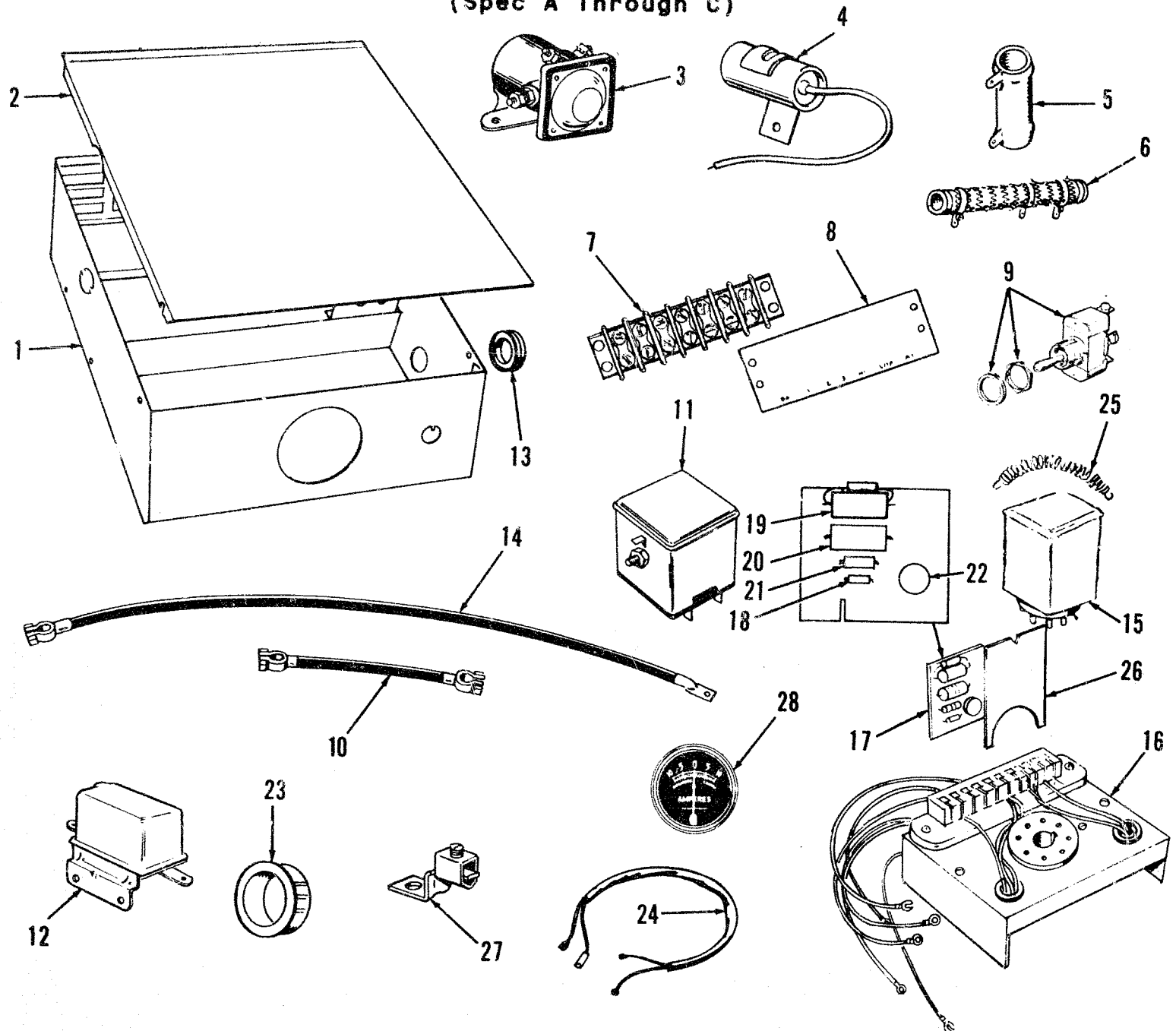
Generator
Begin Spec R



Generator Begin Spec R

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Rotor, Wound (Includes Commutator and Collector Ring)	22	516-0182	8	Pin, Roll - Generator Frame (1/4 x 3/4")
	201-2506	1	Key 2 Code FP	23	402-0475	2	Support, Generator
	201-2503	1	Key 5 Code FJ and 3CR	24	203-0152	1	Commutator
	201-2512	1	Key 6 Code FC	25	204-0110	1	Ring, Collector
	201-2513	1	Key 7 Code FG	26	800-0044	4	Screw, Cap - Hex Head (5/16-18 x 7-1/2")
	201-2517	1	Key 9 Code FR	27			Resistor, Fixed
2	232-2316	1	Hub, Drive		353-0071	1	5 Amp Battery Charger
3	515-0006	1	Key, Rotor to Crankshaft		353-0072	1	10 Amp Battery Charger
4	510-0047	1	Bearing (Ball), Rotor	28	205-0090	1	Fan, Generator
5	232-0596	1	Clip, Stop - Bearing	29	515-0007	1	Key, Hub - Drive
6	520-0733	1	Stud, Rotor Through	30	812-0118	1	Screw, Machine - Round Head (#10-24 x 5")
7	220-1816	1	Stator, Wound	31	815-0359	17	Screw, Tapping - Hex Head (#10-32 x 7/8" Lg)
8			Lead, Brush	32	871-0010	4	Nut, Hex - Brass (#10-32)
	336-1891	4	Blade Type Terminals (9")	33	853-0008	4	Washer, Lock - External (#1)
	336-1890	4	Blade Type and Round Type Terminal (4")	34	526-0049	4	Washer, Flat - Brass (#10)
9	336-0186	3	Jumper, Ground (3-1/2")	35	815-0341	4	Screw, Machine - Hex Head Brass (#10-32 x 1")
10	304-0706	2	Bracket, Mounting - Resistor	36	862-0015	4	Nut, Hex (5/16-18)
11	231-0164	1	Adapter, Generator to Engine (Includes 4 Alignment Pins)	37	850-0055	1	Washer, Lock - Spring (7/16)
12	304-0015	2	Washer, Resistor - Centering	38	870-0203	1	Nut, Hex (7/16-20)
14			Block, Brush	39	850-0040	2	Washer, Lock - Spring (1/4" Screw (1/4-20 x 1-1/2"))
	212-0352	1	Bottom	40	815-0441	2	Hex Head, Tapping - 5 Amp Battery Charger
	212-0353	1	Left Side		812-0156	2	Round Head - 10 Amp Battery Charger
	212-0345	1	Right Side	41	800-0050	4	Screw, Cap - Hex Head (3/8-16 x 1")
	212-0361	1	Top	42	850-0050	4	Washer, Lock - Spring (3/8")
15	214-0095	4	Brush, Commutator	46	516-0196	4	Pin, Alignment (.249 Dia. x .862 Lg)
16	214-0096	8	Brush, Collector	47	850-0030	1	Washer, Lock - Spring (#10)
17	212-1232	12	Spring, Brush	48	860-0011	1	Nut, Hex (#10-24)
18	232-2107	1	Cover, Fan - Generator	49	740-1006	4	Washer, Flat (M8)
19	234-0362	1	Wrapper, Bell - End	50	526-0115	4	Washer, Flat (5/16" Screw)
20			Bell, End (Includes 4 Alignment Pins)				
	211-0364	1	5 Amp Battery Charger				
	211-0365	1	10 Amp Battery Charger				
21			Harness, Wiring				
	338-0946	1	Key 2 - 50 Hz - Code FP				
		1	Key 5 - 60 Hz - Code FJ				
		1	Key 9 - 50 Hz - Code FR				
	338-0947	1	Key 6 - 60 Hz - Code FC				
		1	Key 7 - 60 Hz - Code FG				
	338-0948	1	Key 5 - 60 Hz - Code 3CR				

Control (Spec A Through C)

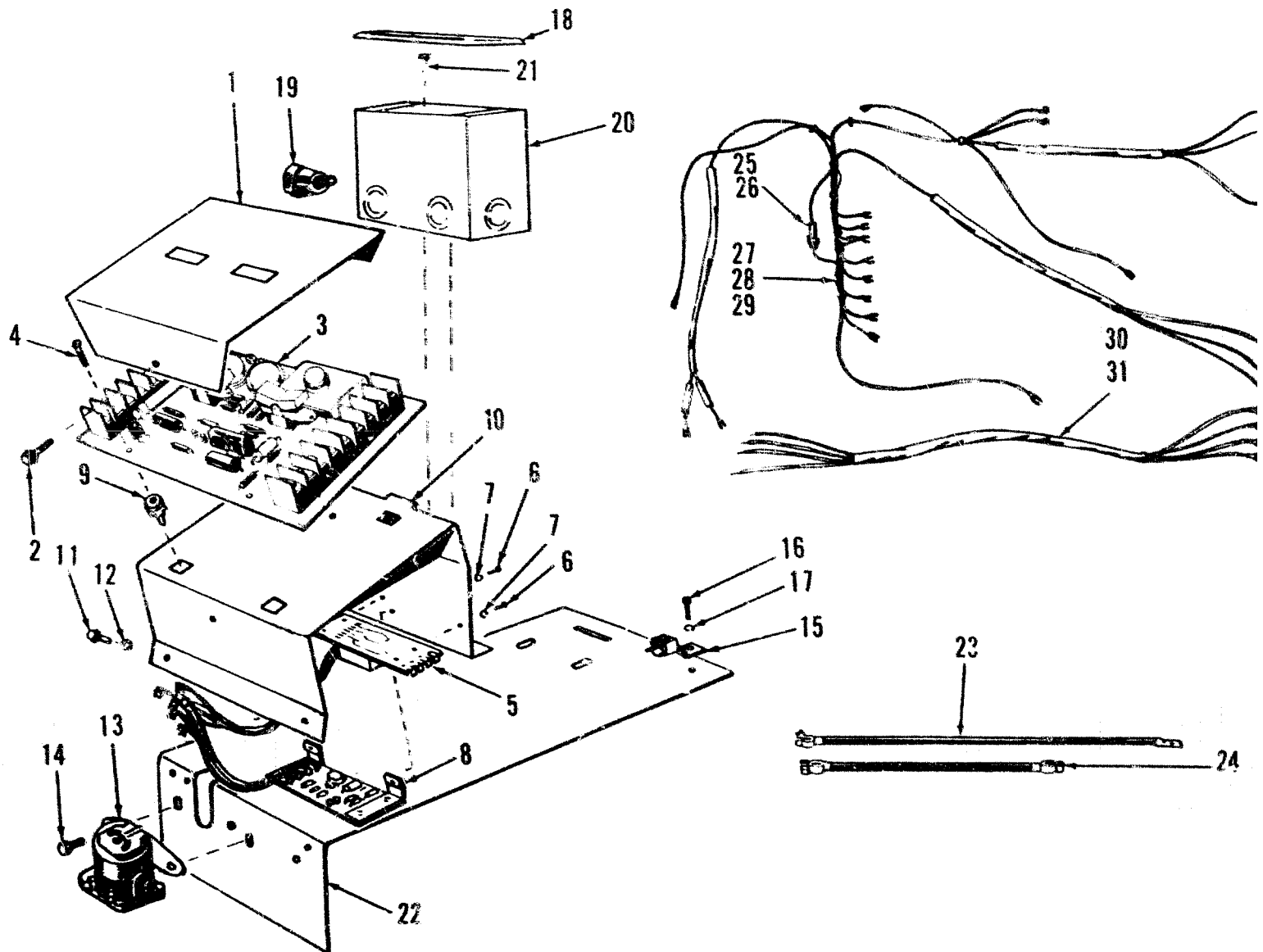


REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-3301	1	Box, Control
2	301-3302	1	Cover, Control Box
3	307-0845	1	Solenoid, Start
4	312-0057	1	Condenser (1.0 Mfd.) - Suppression
5	353-0006	1	Resistor, Fixed 6-Ohm, 50 Watt
	304-0251	1	30-Ohm, 5 Watt
6	304-0632	1	Resistor, Adjustable (6-Ohm, 100 Watt)
7	332-0745	1	Block, Terminal
8	332-1321	1	Strip, Marker
9	308-0154	1	Switch, Start/Stop
10	416-0004	1	Cable, Battery Jumper - Optional
11	307-1052	1	Relay, Stop
12	305-0383	1	Relay, Voltage Regulator
13	508-0001	1	Grommet, For 1-1/16" Hole
14	416-0077	2	Cable, Battery (28")
15	307-1070	1	Relay, Start Disconnect
16	323-0803	1	Socket and Chassis Assembly,

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
17	300-0734	1	Amplifier Assembly, Start Disconnect (Includes Parts Marked *)
18	359-0028	1	*Diode, Zener
19	350-0979	1	*Resistor - 470-Ohm, 2 Watt
20	350-0985	1	*Resistor - 820-Ohm, 2 Watt
21	350-0397	1	*Resistor - 2700-Ohm, 1/2 Watt
22	362-0010	1	*Transistor
23	331-0088	2	Bushing (Nylon) 1-3/32" Mounting Hole
	508-0160	1	1/2" Mounting Hole
24	338-0561	1	Harness, Wiring
25	301-3306	1	Spring, Relay Holddown
26	301-3307	1	Spacer, Relay to Amplifier
27	332-0142	1	Terminal, Solderless (Use as Required)
28	302-0058	1	Ammeter, Charge (10-0-10)

* - Parts Included in 300-0734 Amplifier Assembly.

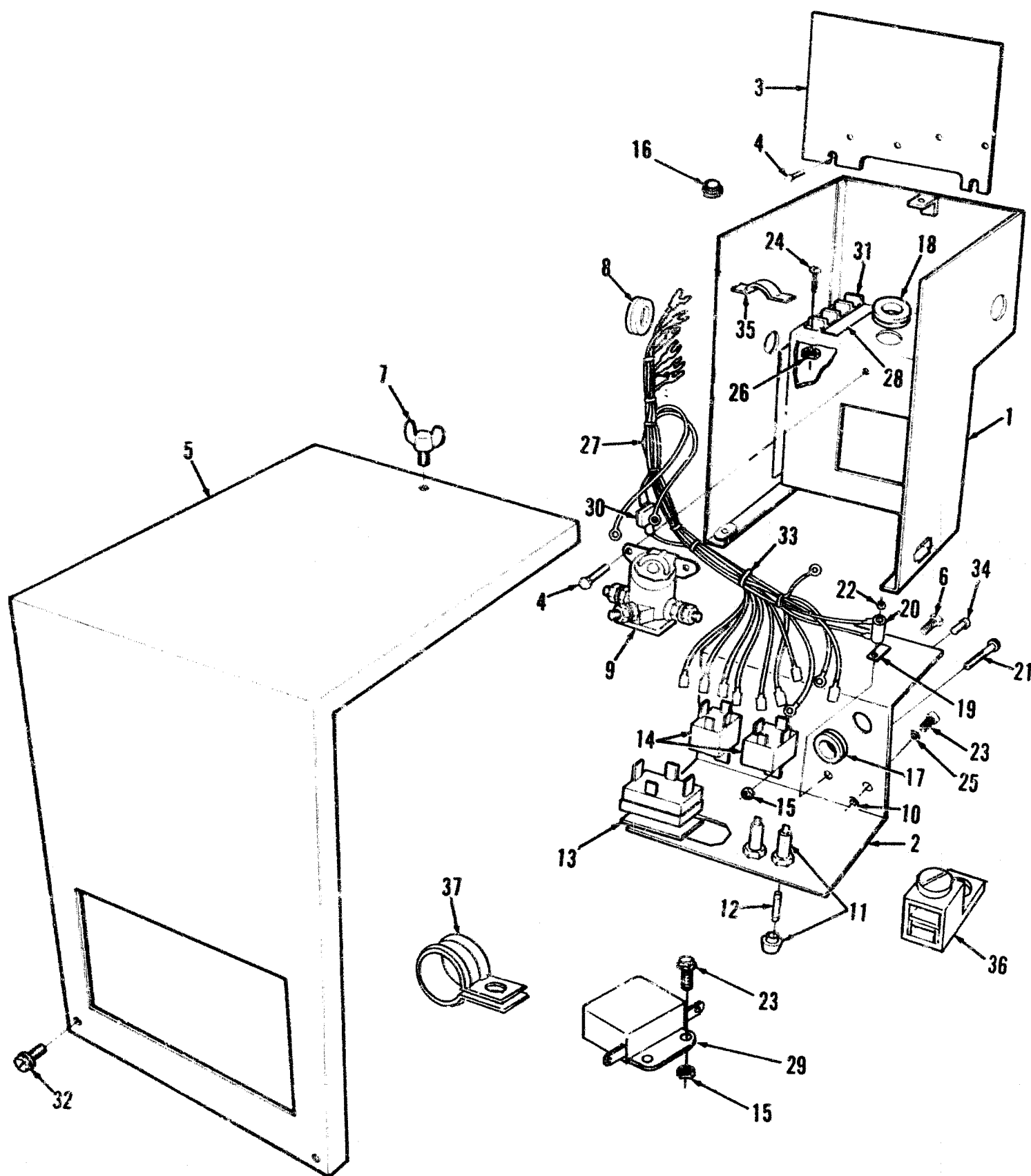
Control (Spec D Through K)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-3484	1	Cover, Control
2	815-0350	3	Screw, Tapping - Hex Head (#10-32 x 3/8")
3	300-0859	1	Control Assembly (See Separate Page for Components)
4	815-0365	4	Screw, Tapping - Round Head, Cross Recessed (#8 x 3/4")
5	300-0935	1	Control, Start Adapter (See Separate Page for Components)
6	812-0077	4	Screw, Machine - Round Head (#8-32 x 3/8")
7	853-0005	4	Washer, Lock - Spring (#8)
8	300-1227	1	Control, Disconnect Adapter (Use effective Serial #0675948597, During Spec F) (See Separate Page for Components)
9	870-0263	4	Nut, Insulator
10	301-3481	1	Bracket, Control Mounting
11	815-0350	4	Screw, Tapping - Hex Head (#10-32 x 3/8")
12	856-0003	4	Washer, Lock - Spring (#10)
13	307-1166	1	Solenoid, Start
14	821-0009	1	Screw, Self-Locking - Hex Washer Head (1/4-20 x 3/8")
15	332-0142	1	Terminal, Lug

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
16	821-0010	1	Screw, Self-Locking - Hex Washer Head (1/4-20 x 1/2")
17	856-0006	1	Washer, Lock - Spring (1/4")
18	330-0004	1	Cover, Outlet Box
19	508-0179	1	Grommet, Outlet Box
20	330-0074	1	Box, Outlet
21	815-0350	2	Screw, Tapping - Hex Head (#10-32 x 3/8")
22	301-3560	1	Panel, Control Mounting
23	416-0004	1	Cable, Jumper - Battery
24	416-0077	2	Cable, Battery - 28"
25	321-0194	1	Fuse - 9 Amperes
26	321-0193	1	Fuseholder
27	338-0718	1	Wiring Harness - Engine Control (Standard Sets)
28	338-0738	1	Wiring Harness - Engine Control (Sets with Gas Carburetor)
29	338-0743	1	Wiring Harness - Engine Control (Sets with HATKO)
30	338-0642	1	Wiring Harness - Start Control - Key 1,2,5 (Single Phase Sets)
31	338-0643	1	Wiring Harness - Start Control - Key 3,4,6,7,8 (Three Phase Sets)

Control
(Begin Spec L)

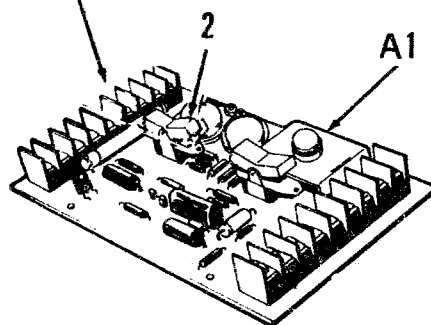
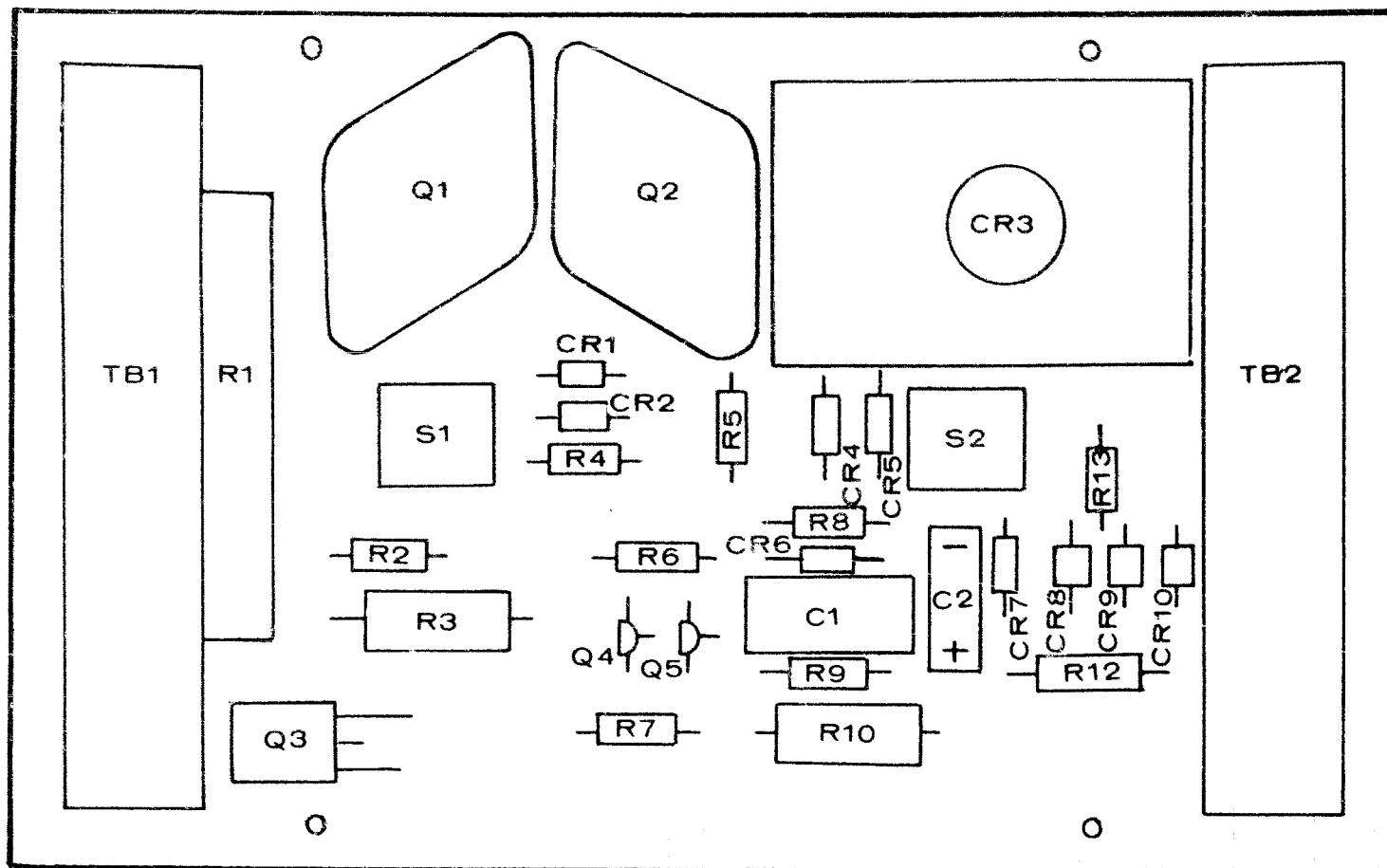


Control (Begin Spec L)

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	301-4634	1	Box, Control	27			Harness, Wiring - Control (Includes Parts Marked *)
2	301-4442	1	Panel, Control				Generator Sets With Electric Fuel Pump
3	301-4441	1	Plate, Generator Control				Spec L Through P
4	821-0008	4	Screw, Cap - Locking Head (1/4-20 x 5/16")	338-1133	1		Begin Spec R
5	301-4545	1	Cover, Control Box (Includes Schematic)	338-1200	1		Key 2 - Code FP - 50 Hz - - 5500 Watts, 1 Phase
6	821-0004	1	Screw, Cap - Locking Head (#10-32 x 5/16")				Key 5 - Code FJ - 60 Hz - 6500 Watts, 1 Phase
7	518-0055	1	Screw, Wing (10-32 x 1/2")				Key 6 - Code FC - 60 Hz - 6500 Watts, 3 Phase
8	508-0021	1	Grommet, Rubber (3/4" Mounting Hole)				Key 7 - Code FG - 60 Hz - 6500 Watts, 3 Phase
9	307-1617	1	Relay, Start Solenoid (K1)				Generator Sets With Mechanical Fuel Pump
10	508-0015	1	Washer, Fiber				Spec L Through P
11	321-0175	2	Holder, Fuse	338-1218	1		Begin Spec R
12	321-0298	2	Fuse (5 Amp) (F1, F2)	338-1147	1		Key 2 - Code FP - 50 Hz - 5500 Watts
13	308-0383	1	Switch, Start/Stop (S1)				Key 5 - Code FJ - 60 Hz - 6500 Watts, 1 Phase
14	307-2562	2	*Relay, Ignition (Includes Leads) (K2, K3)				Key 6 - Code FC - 60 Hz - 6500 Watts, 3 Phase
15	870-0131	4	Nut, Hex - With Washer (#10-32)	28	332-2103	1	Strip, Terminal Block Marker
16	508-0208	1	Bushing, Nylon (3/4" Mounting Hole)	29	305-0383	1	Regulator, Voltage
17	331-0088	1	Bushing (1-3/32" Mounting Hole)	30	357-0030	2	*Rectifier, Silicon (One Rectifier (CR1) Included with Wiring Harness) (CR1, CR2)
18	508-0191	1	Bushing (7/8" Mounting Hole)	31	332-0699	1	*Block, Terminal (TB1)
19	304-0580	1	Insulator	32			Screw, Hex Washer Head - Control Box Cover
20	352-0161	1	*Resistor - 10-Ohm, 5 Watts (R1)				Cap (#10-32 x 5/16") Spec L
21	812-0087	1	Screw, Machine - Round Head (#8-32 x 1/2")		821-0004	2	Slotted, Tapping (#10-32 x 3/8") Begin Spec P
22	870-0221	1	Nut, Hex - With Washer (#8-32)		815-0350	2	*Tie, Cable - Wiring Harness
23	821-0004	9	Screw, Cap - Locking Head (#10-32 x 5/16")	33	332-0942	16	Screw, Hex Slotted Head - Ignition Relay (#10-32 x 3/8" - Tapping)
24	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")	34	815-0350	2	*Jumper, Terminal
25	854-0006	2	Washer, Lock - Internal (#6)				Terminal, Solderless
26	860-0005	2	Nut, Hex (#6-32)	35	332-1043	2	Clamp, Hold Down (AC Leads) (Nylon)
				36	332-0142	1	
				37	332-1876	1	

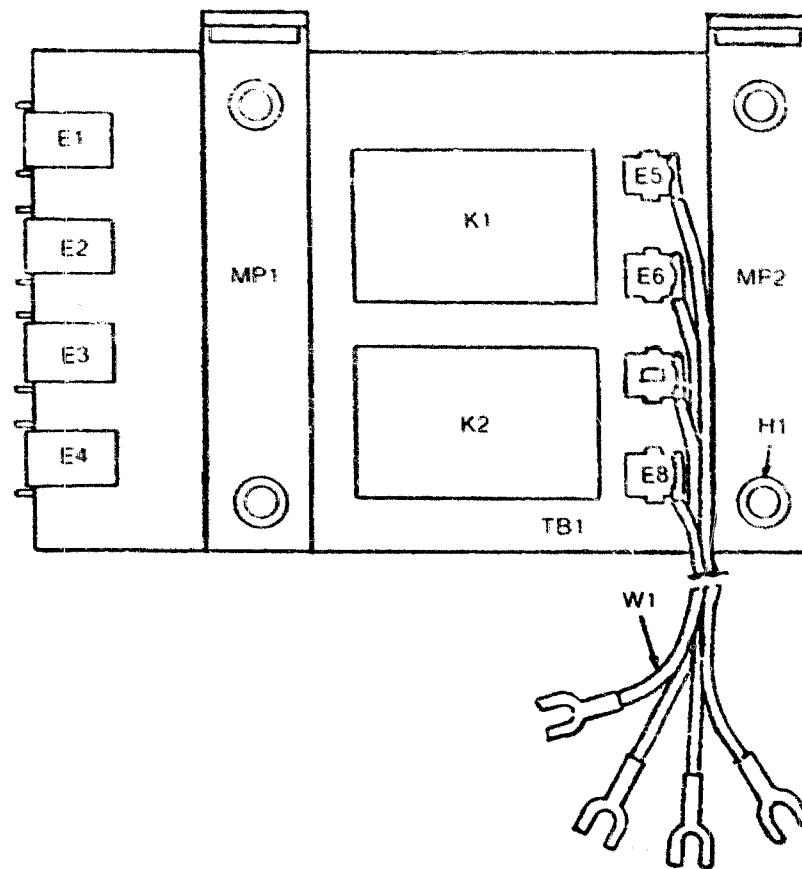
* - Parts Included in Wiring Harness.

Control Assembly (Spec D Through K)



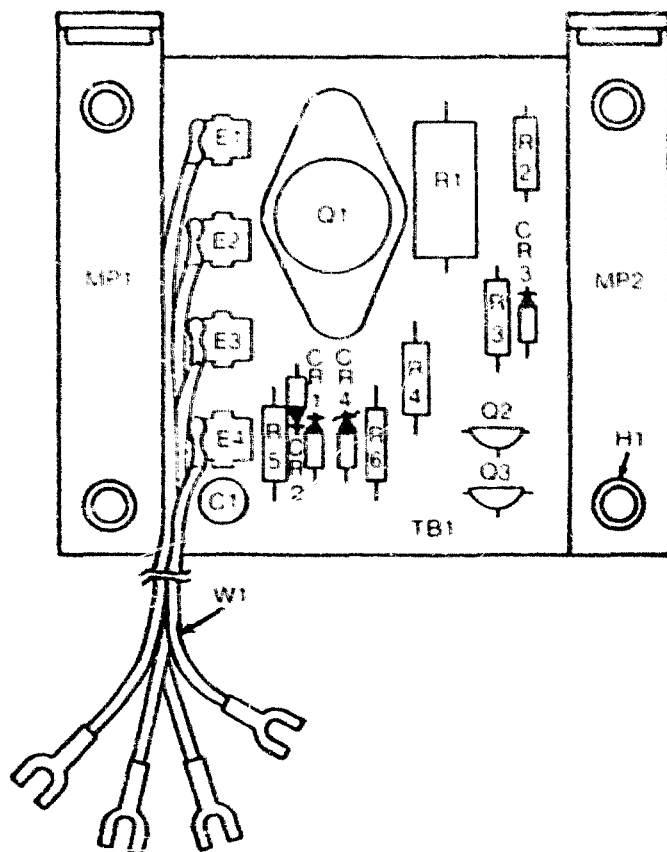
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
A1	300-0859	1	Control Assembly	A1R3	350-0977	1	Resistor - 390-Ohm, 2 W, 5%
A1C1	355-0026	1	Capacitor, .47 Mfd.	A1R4	350-0427	1	Resistor - 47K-Ohm, 1/2 W, 5%
A1C2	356-0046	1	Capacitor, Electrolytic - 5 Mfd.	A1R5	350-0404	1	Resistor - 5.1K-Chm, 1/2 W, 5%
A1CR1	357-0013	1	Rectifier	A1R6	350-0315	1	Resistor - 1-Ohm, 1/2 W, 5%
A1CR2	357-0013	1	Rectifier	A1R7	350-0355	1	Resistor - 47-Ohm, 1/2 W, 5%
A1CR3	358-0054	1	Diode and Heat Sink	A1R8	350-0379	1	Resistor - 470-Ohm, 1/2 W, 5%
A1CR4	357-0004	1	Rectifier	A1R9	350-0530	1	Resistor - 330-Ohm, 1/2 W, 5%
A1CR5	357-0004	1	Rectifier	A1R10	350-0983	1	Resistor - 680-Ohm, 2 W, 5%
A1CR6	357-0004	1	Rectifier	A1R12	350-0673	1	Resistor - 270-Ohm, 1 W, 5%
A1CR7	359-0026	1	Diode	A1R13	350-0404	1	Resistor - 5.1K-Ohm, 1/2 W, 5%
A1CR8	357-0017	1	Rectifier	A1S1	308-0323	1	Switch - Double Pole, Double Throw
A1CR9	357-0017	1	Rectifier	A1S2	308-0320	1	Switch - Double Pole, Double Throw
A1CR10	357-0013	1	Rectifier	A1TB1	332-1450	1	Block, Terminal
A1Q1	362-0018	1	Transistor	A1TB2	332-1450	1	Block, Terminal
A1Q2	362-0033	1	Transistor	2	308-0378	1	Rocker and Spring (Replaceable part of switch A1S1)
A1Q3	362-0028	1	Transistor				
A1Q4	362-0011	1	Transistor				
A1Q5	362-0011	1	Transistor				
A1R1	353-0043	1	Resistor - 35-Ohm, 10 Watt				
A1R2	350-0437	1	Resistor - 120K-Ohm, 1/2 W, 5%				

Start Adapter Control (Spec D Through K)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-0935	1	Control, Start Adapter	K2	307-1185	1	Relay, Armature
E1-4	332-1511	4	Terminal, Lug	MP1	332-1656	1	Bracket, Mounting
E5-8	332-1489	4	Terminal, Lug	MP2	332-1656	1	Bracket, Mounting
H1	818-0005	4	Rivet, Blind	TB1	332-1491	1	Printed Wiring Board
K1	307-1185	1	Relay, Armature	W1	338-0680	1	Harness, Wiring

Disconnect Adapter Control (Spec D Through K)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	300-1227	1	Control, Disconnect Adapter
C1	356-0059	1	Capacitor, 2.2 Mfd 20% 35 vdc
CR1	357-0004	1	Rectifier
CR2	357-0004	1	Rectifier
CR3	357-0004	1	Rectifier
CR4	359-0036	1	Diode
E1-4	332-1511	4	Terminal, Lug
H1	818-0005	4	Rivet, Blind
MP1	332-1656	1	Bracket, Mounting
MP2	332-1656	1	Bracket, Mounting
Q1	362-0035	1	Transistor
Q2	362-0011	1	Transistor
Q3	362-0011	1	Transistor

REF NO.	PART NO.	QTY USED	PART DESCRIPTION
R1	350-1124	1	Resistor 100-Ohm, 2 Watt, 10%
R2	350-0536	1	Resistor 1000-Ohm, 1/2 Watt, 10%
R3	350-0527	1	Resistor 180-Ohm, 1/2 Watt, 10%
R4	350-0396	1	Resistor 2400-Ohm, 1/2 Watt, 5%
R5	350-0398	1	Resistor 3000-Ohm, 1/2 Watt, 5%
R6	350-0411	1	Resistor 10,000-Ohm, 1/2 Watt, 5%
TB1	332-1833	1	Printed Wiring Board
W1	338-0935	1	Harness, Wiring

Labels, Paint, Thread Sealant, and Gasket Kits

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	98-1100	1	Kit, Decal		168-0113	1	Kit, Gasket - Complete Engine (Includes Parts Marked *)
	98-3234	1	6.5 NH - Control Panel Decal		101-0782	1	*Gasket, Plate - Rear Bearing
			Begin Spec R		102-1409	1	*Gasket, Base - Oil
	98-4694	1	6.5 Gen Set (Silkscreen)		103-0810	1	*Gasket, Gearcase
	98-4693	1	5.5 Gen Set (Silkscreen)		110-2987	2	*Gasket, Head - Cylinder
	98-3074	1	Silkscreen, SVC - Instructions		110-3136	2	*Gasket, Guide - Valve
			-Contractors		110-3575	3	*Gasket, Box - Valve
	168-0115	1	Kit, Gasket - Carbon Removal		120-0161	1	*Kit, Gasket - Oil Pump
			- Spec A-K (Includes Parts Marked +)		122-0774	1	*Gasket, Adapter - Oil Filter
	110-2987	2	+Gasket, Head		123-0191	1	*Gasket, Cap - Oil Fill
	110-3575	2	+Gasket		149-0003	1	*Gasket, Pump - Fuel
	154-1250	2	+Gasket		154-2061	2	*Gasket, Manifold - Exhaust
	154-2061	2	+Gasket		154-2219	2	*Gasket, Manifold - Intake
	155-1070	2	+Gasket		160-1040	1	*Gasket, Box - Breaker
	168-0127	1	Kit, Gasket - Carbon Removal		509-0008	1	*Seal, Oil (Gov. Shaft)
			- Begin Spec L (Includes Parts Marked †)		509-0040	1	*Seal, Oil (Gearcase)
	110-2987	2	†Gasket, Head		509-0041	1	*Seal, Oil (Bearing Plate)
	110-3575	3	†Gasket		509-0117	1	*O-Ring, 1.75 OD, 1.50 ID
	154-2061	1	†Gasket		140-0584	1	*Gasket, Cleaner - Air
	154-2219	2	†Gasket, Manifold		140-0921	1	*Gasket, Air Horn - Carburetor
	154-2747	2	†Gasket		141-0078	1	*Gasket, Flange - Carburetor
			Touch-Up Paint (13 oz. Pressurized Spray Can)		141-0950	1	*Gasket, Carburetor
			Metallic Green		154-1250	2	*Gasket, Manifold - Intake
	525-0137	1	Non-Metallic Green		155-1070	2	*Gasket, Tube - Exhaust
	525-0305	1	Sealant, Thread (50cc Bottle)		509-0097	1	*Seal, Oil (1.375 ID-2" OD)
	518-0452	1	Loctite, Bottle (250cc)				
	518-0347	1					

* - Parts Included in 168-0113 Gasket Kit.

+ - Parts Included in 168-0115 Gasket Kit.

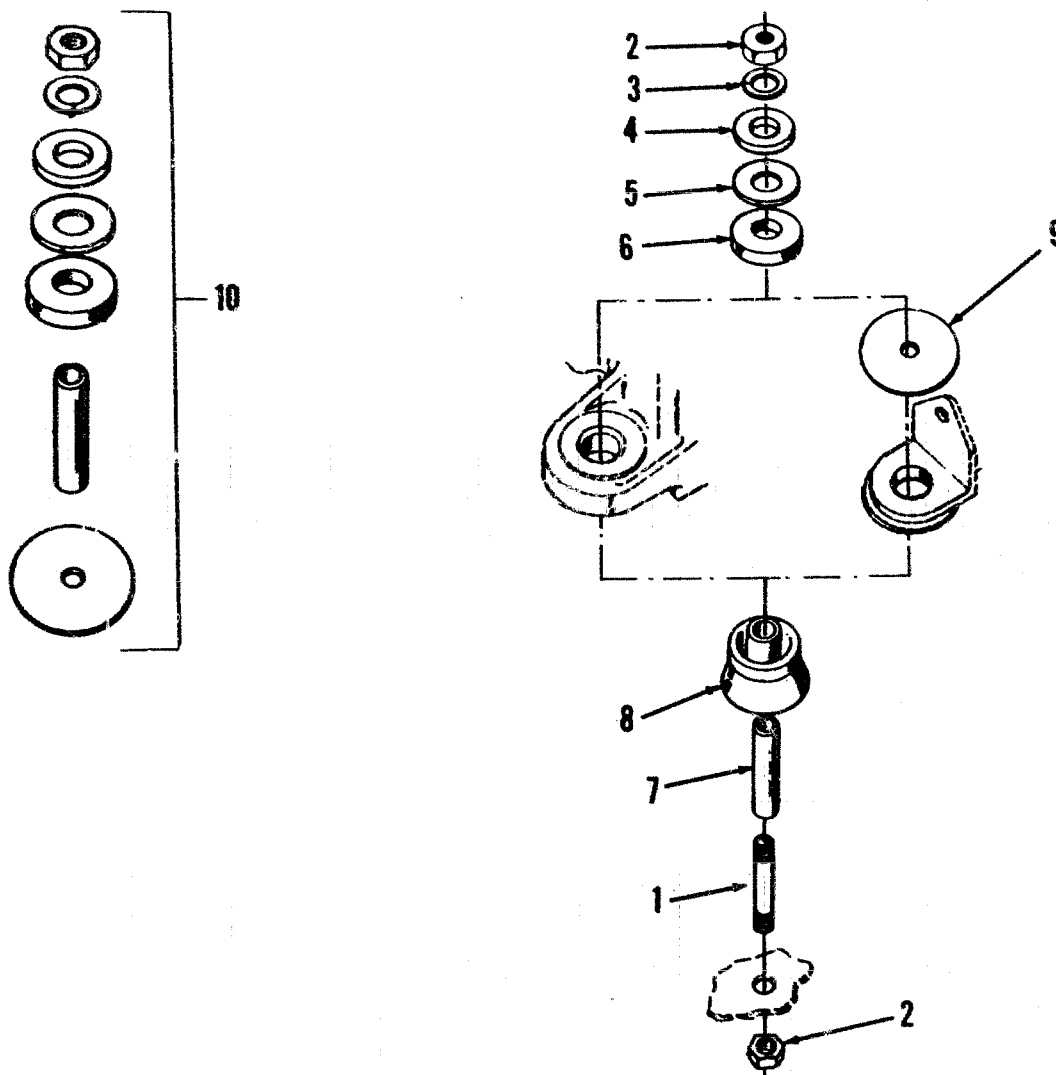
† - Parts Included in 168-0127 Gasket Kit.

NOTE: For other kits refer to the related group.

CONTRACTOR MODELS

The following pages pertain to special parts for Contractor Models. For parts not listed in these pages, refer to the main parts section using Key 2 for 50 hertz sets and Key 5 for 60 hertz sets. When referring to the main parts section, reference to specification letter and voltage also applies to these sets.

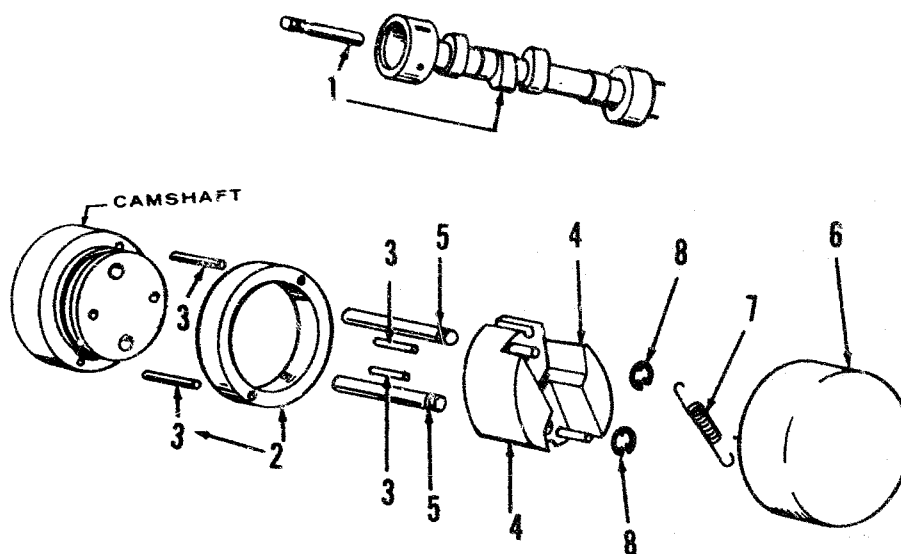
Mounting Hardware



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	520-0913	4	Stud (7/16-14 x 4-1/8") Begin Spec P	6	402-0282	4	Cushion - Begin Spec P
2	664-0004	4	Nut, Hex (7/16-14) Begin Spec P	7	402-0290	4	Bushing, Spacer - Begin Sp
3	850-0055	4	Washer, Lock - Spring (7/16") Begin Spec P	8	402-0283	4	Cushion, Mounting - Begin Spec P
4	526-0014	4	Washer, Flat (7/16" Screw) Begin Spec P	9	526-0286	2	Washer, Flat (1" Screw) Generator End - Begin Spec P
5	526-0198	4	Washer, Flat (9/16" Screw) Begin Spec P	10	402-0379	4	Hardware Package, Mounting Spec A Through N

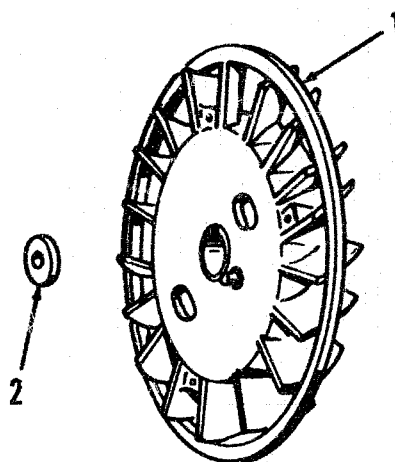
CONTRACTOR MODELS

Camshaft



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	105-0317	1	Camshaft (Includes Center Pin and Spark Advance Mechanism Pins)	5	516-0172	2	Pin, Groove (1-1/16") - Timing Control
2	160-0791	1	Cam, Timing Control	6	110-1283	1	Cover, Timing Control
3	516-0144	4	Pin, Roll (7/16") Camshaft and Timing Control Cam	7	160-1051	1	Spring, Timing Control
4	160-1049	2	Weight Assembly, Timing Control - Includes Pins	8	518-0129	2	Ring, Timing Control Retains

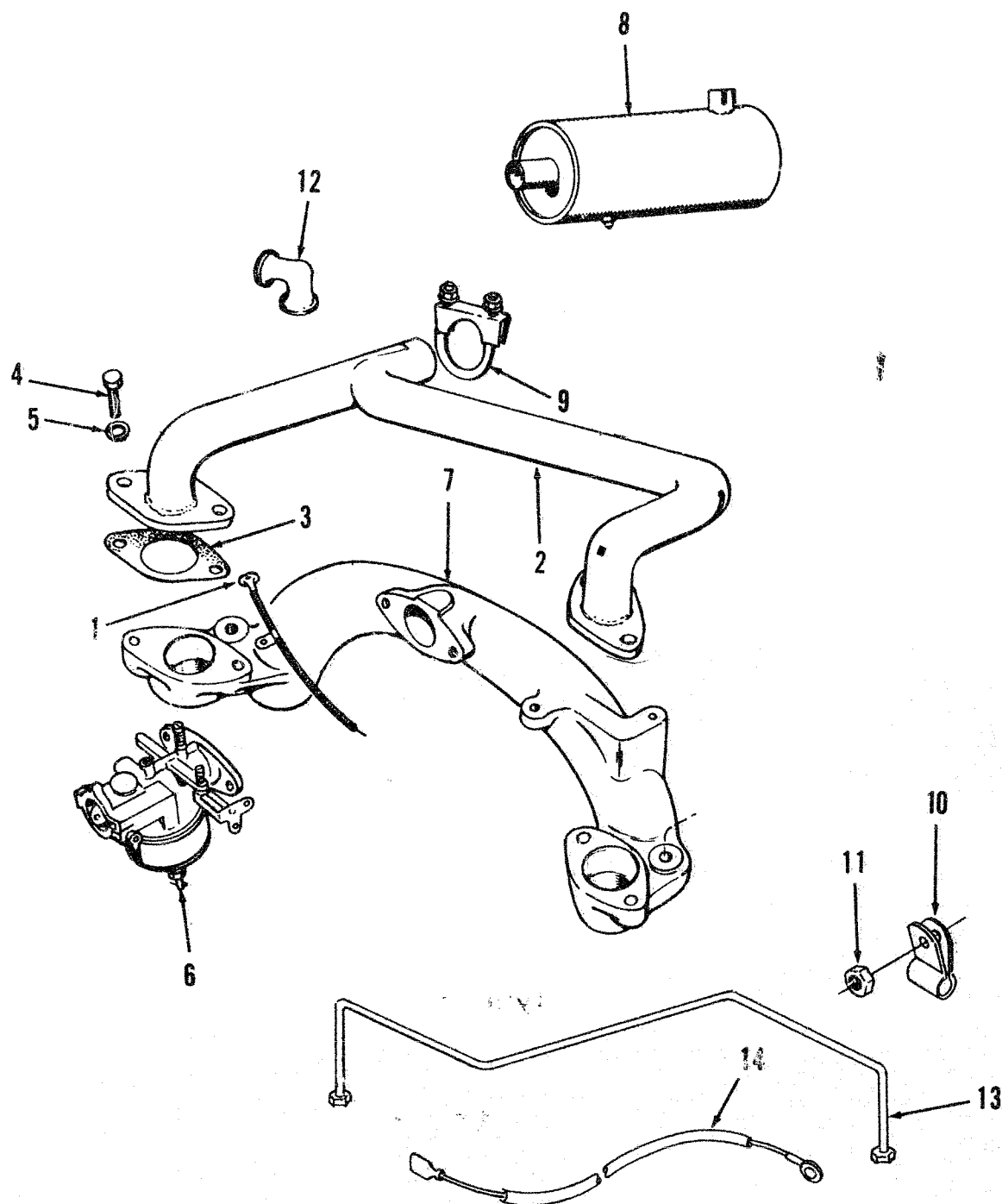
Flywheel



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	160-1080	1	Flywheel (Includes Magnets)
2	526-0017	1	Washer, Wheel Mounting

CONTRACTOR MODELS

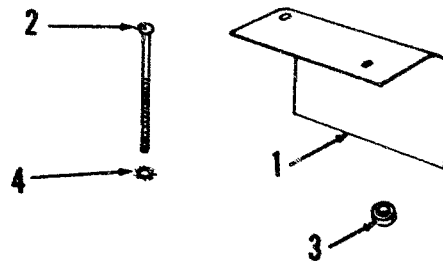
Fuel System and Exhaust



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	149-1024	1	Rod, Fuel Pump Primer	9	155-1135	1	Clamp, Exhaust Tube
2	154-1401	1	Manifold, Exhaust	10	332-2650	1	Clamp, Insulated - Fuel Line - Begin Spec P
3	154-2061	2	Gasket, Exhaust Manifold	11	862-0015	1	Nut, Hex (5/16-18) Begin Spec P
4	800-0028	4	Screw (5/16-18 x 1") - Exhaust Manifold Mounting	12	140-1495	1	Tube, Air Inlet - Begin Spec R
5	850-0045	4	Washer, Lock (5/16")	13	149-2211	1	Line, Fuel - Begin Spec R
6			Carburetor (See Separate Page for Breakdown)	14	226-3888	1	Lead - Fuel Pump to Coil - Begin Spec R
	146-0440	1	Begin Spec R				
	141-0900	1	Spec A-K				
7	154-1385	1	Manifold, Intake				
8			Muffler, Exhaust				
	155-1173	1	Spec A-N				
	155-1985	1	Begin Spec P - Spark Arrestor				

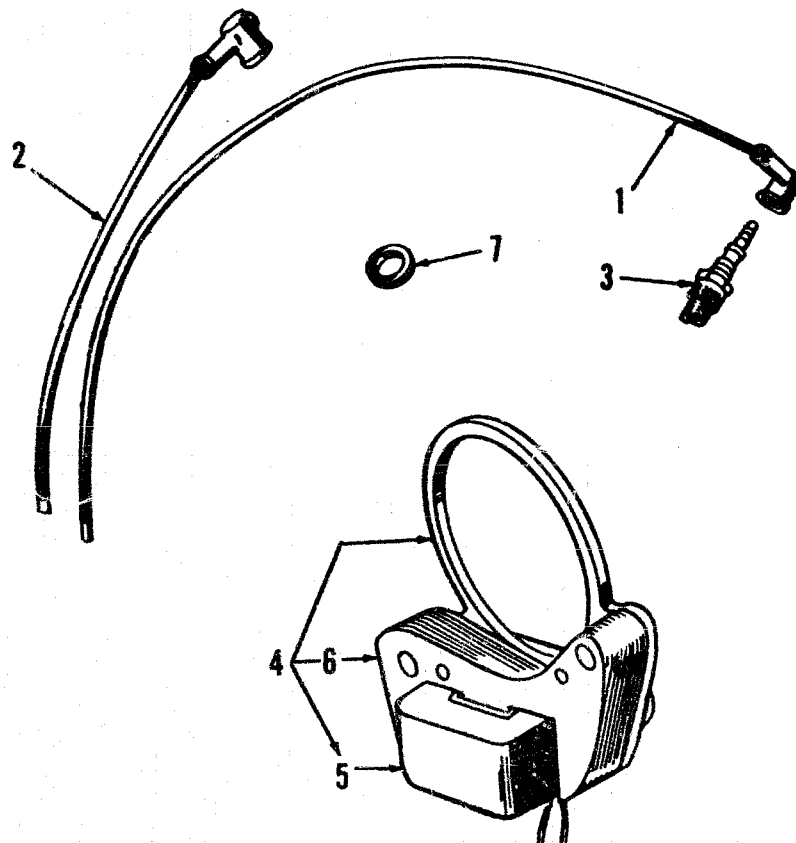
CONTRACTOR MODELS

Vacuum Speed Booster



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	150-1071	1	Shield, Heat	3	526-0196	2	Washer, Spacer - Heat Shield Mounting
2	813-0111	2	Screw (10-32 x 2-1/4") Booster Mounting	4	853-0008	2	Washer (#10), Shakeproof ET

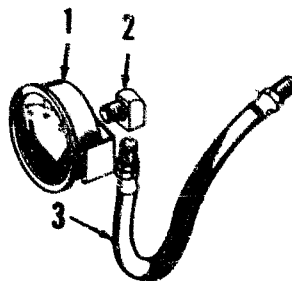
Ignition



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	167-1548	1	Cable, Spark Plug - RH (21") Spec A through C	3	167-0241	2	Plug, Spark
	167-1568	1	Begin Spec D	4	160-1121	1	Stator Assembly, Magneto
2	167-1463	1	Cable, Spark Plug - LH (19") Spec A through C	5	160-1124	1	Coil, Magneto Stator
	167-1559	1	Begin Spec D	6	160-1118	1	Pole Shoe, Magneto Stator
				7	508-0095	2	Grommet, Spark Plug Cables

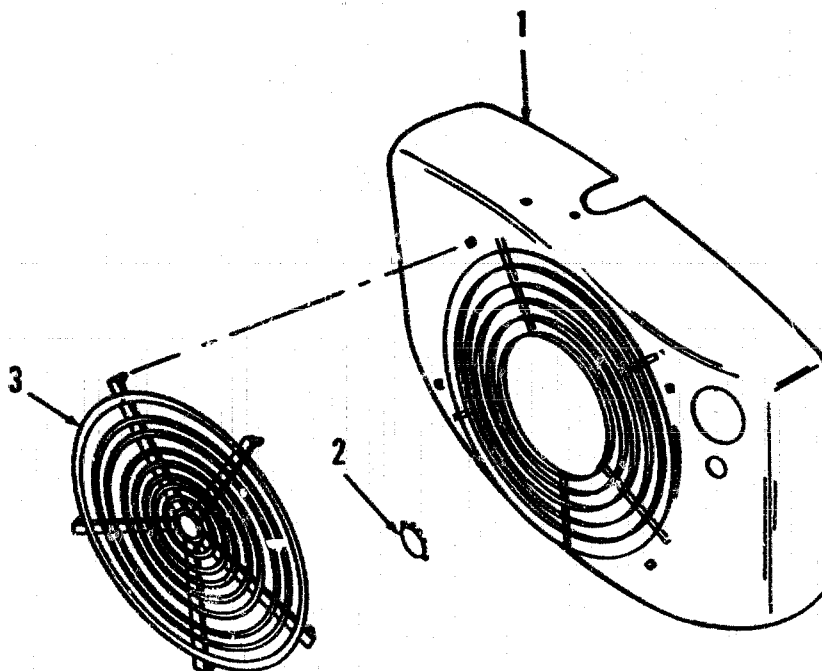
CONTRACTOR MODELS

Oil Gauge



REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Gauge, Oil Pressure
	193-0005	1	Spec A through C
	193-0068	1	Begin Spec D
2	502-0005	1	Elbow, Oil Line to Gauge
3	501-0003	1	Line, Oil

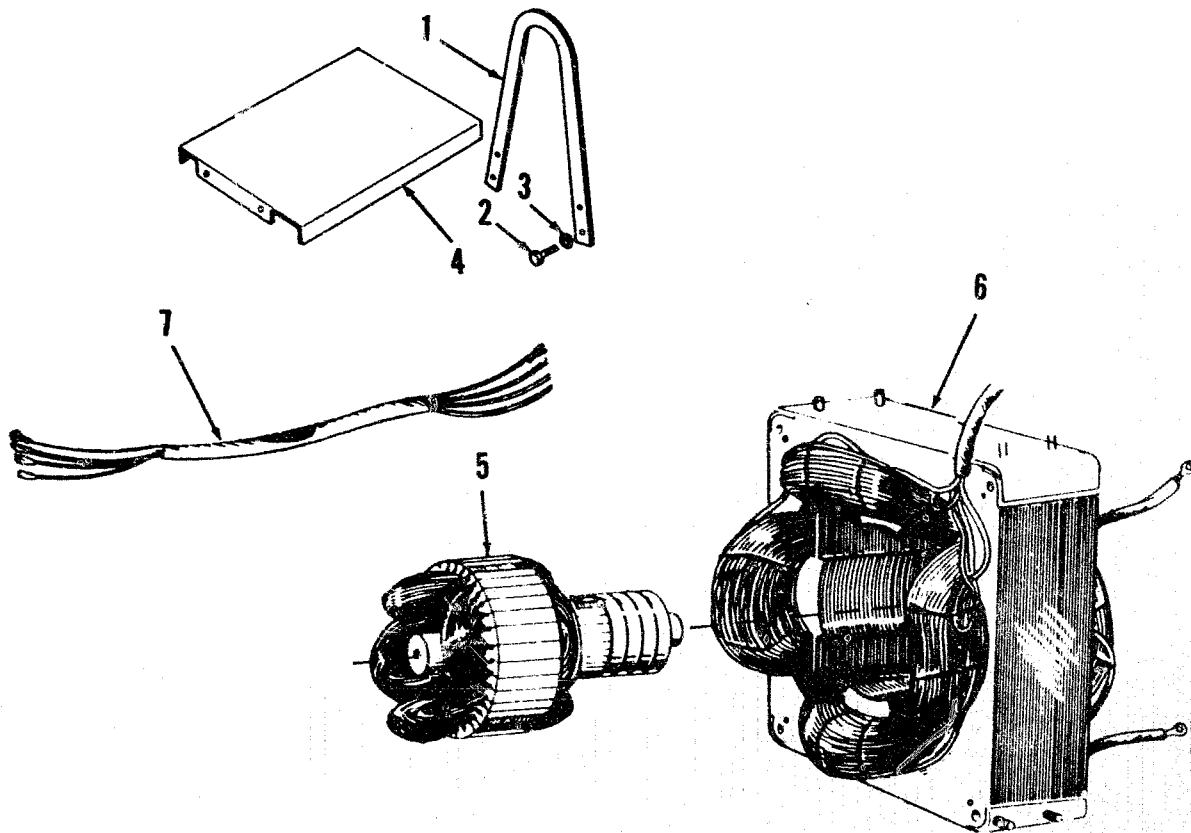
Air Housing



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Housing, Blower	2	517-0021	1	Button, Dot - Spec A-N
	134-1988	1	Spec A-N (Part No Longer Available)	3	134-2447	1	Grille - Begin Spec P
	134-4334	1	Begin Spec P (Part No Longer Available)				

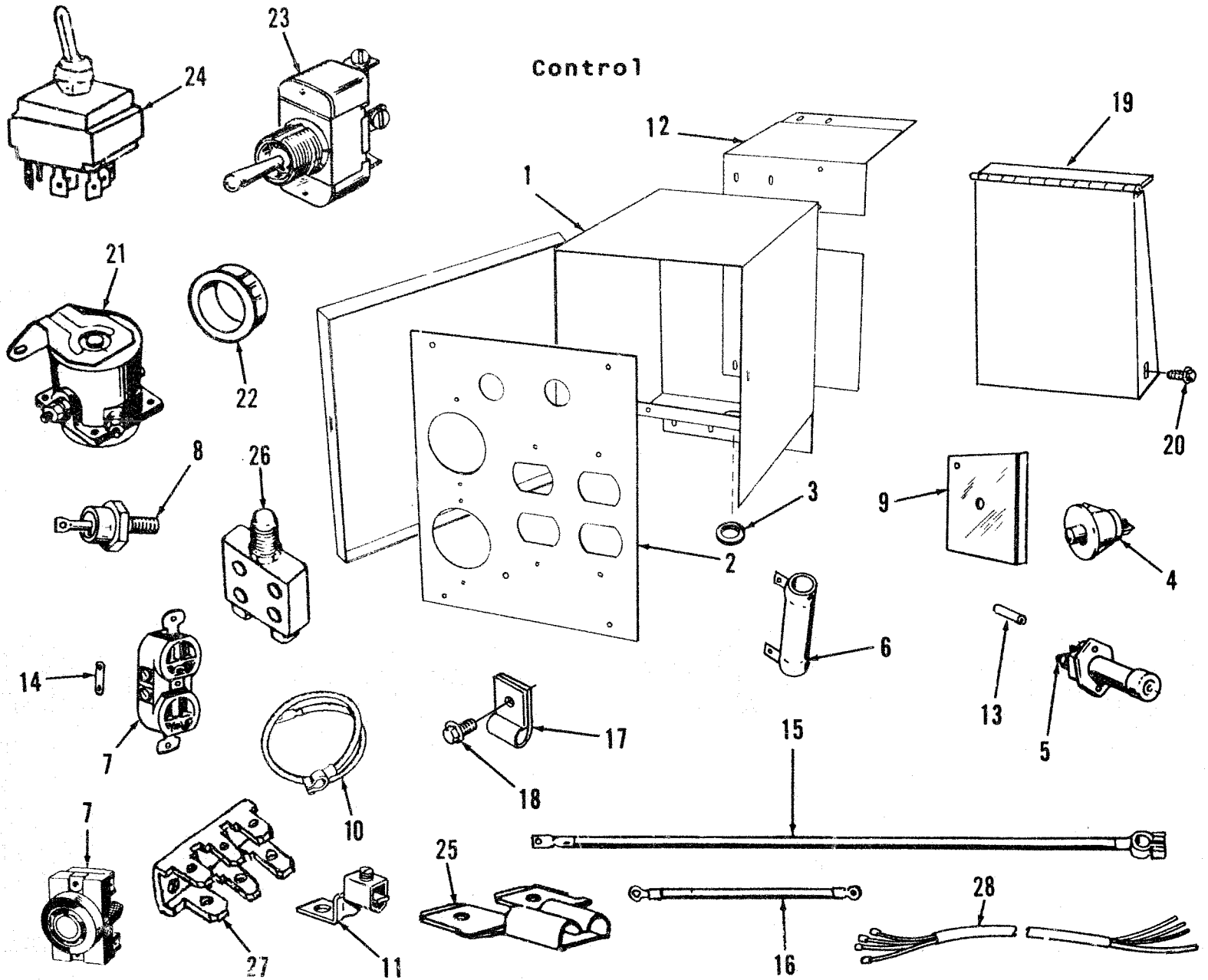
CONTRACTOR MODELS

Generator



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-0934	1	Bracket, Lifting	6			Stator, Generator
2	800-0029	4	Screw (5/16-18 x 1-1/8") -		220-1476	1	Spec A Through C
			Lifting Bracket Mounting		220-1816	1	Begin Spec D
3	850-0045	4	Washer, Lock (5/16")	7			Harness, Wiring - Spec R
4	232-2207	1	Cover, Generator Stator		338-0649	1	Standard Contractor Mode
5			Rotor, Generator		338-0648	1	Canadian Standards
			Spec A Through C				Association Approved
	201-1905	1	50 Hertz Sets				Contractor Models
	201-1903	1	60 Hertz Sets				
			Begin Spec D				
	201-1905	1	50 Hertz Sets				
	201-1903	1	60 Hertz Sets				
			Begin Spec R				
	201-2503	1	60 Hertz Sets				

CONTRACTOR MODELS



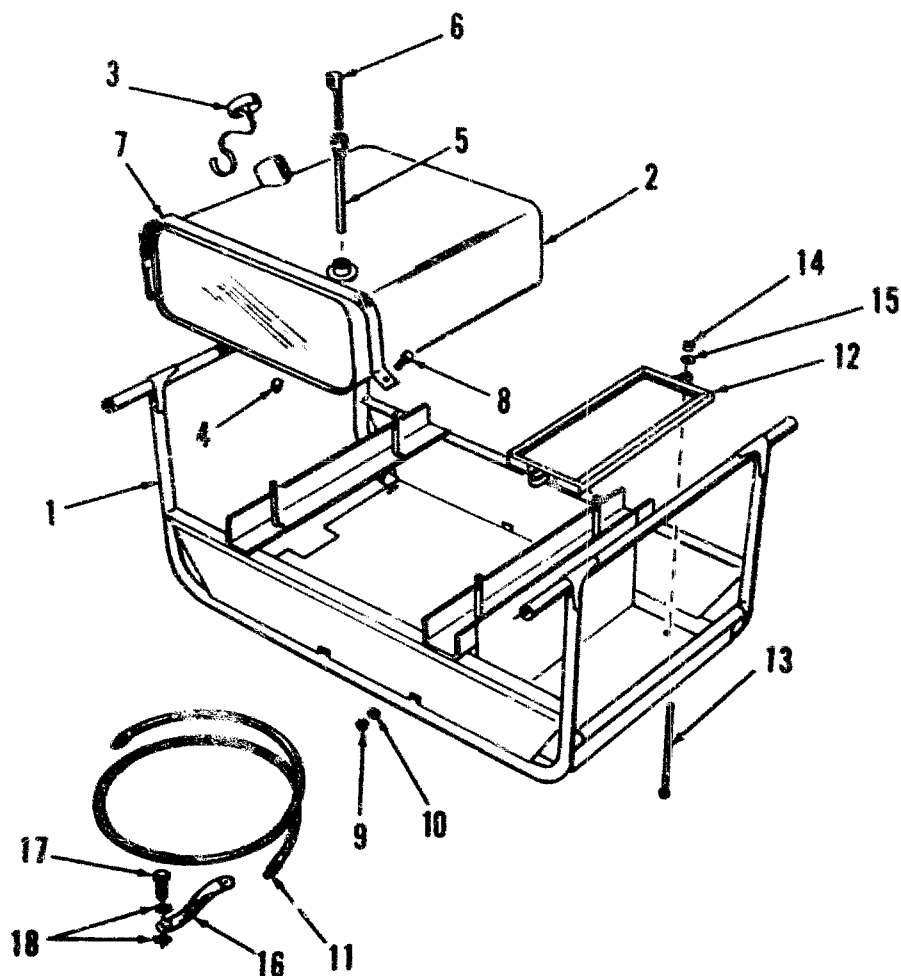
CONTRACTOR MODELS

Control

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Box, Control	14			Jumper
	301-3336	1	Spec A through C		306-0003	2	Relay, Pilot - Reinforce
	301-3576	1	Begin Spec D		332-0592	1	Ground - Begin Spec P
	301-5819	1	Begin Spec R	15			Cable, Battery
2			Panel, Control Box		416-0021	1	Spec A through N - 20-1/2"
	301-3337	1	Spec A through C				Begin Spec P
	301-3577	1	Begin Spec D		416-0643	1	28-1/4" (Negative)
	301-5817	1	Begin Spec R		416-0822	1	36-1/2" (Positive)
3			Grommet, Control Box	16	416-0657	1	Cable (7-1/2"). Battery -
	508-0001	1	For 1-1/16" Hole - Spec				B+ Start Solenoid
			A through C	17	332-1554	2	Clamp, Battery Cable - Begin
	508-0002	1	For 1/2" Hole				Spec P
	508-0008	1	For 13/16" Hole	18	815-0261	2	Screw, Cap - Hex Washer Head
	508-0084	1	For 1-5/8" Hole				Thread Forming
	508-0109	1	For 1-5/16" Hole				(1/4-20 x 1/2") Begin Spec I
4	313-0018	1	Switch, Stop	19			Cover, Control
5	308-0028	1	Switch, Start		301-8310	1	Begin Spec P
6	304-0046	1	Resistor (10-Ohm, 50 Watt)		301-5818	1	Begin Spec R
7			Receptacle	20	821-0004	6	Screw, Self-Locking - Hex
	323-0184	1	15 Amp, 120 Volt - Duplex				Washer Head (#10-32 x 5/16")
	323-0011	1	240 Volt				Begin Spec P
	323-1104	1	15 Amp, 125 Volt	21	307-1031	1	Relay, Solenoid - Start
	323-1107	1	30 Amp, 125 Volt				- Begin Spec P
	323-1108	1	20 Amp, 250 Volt	22	508-0195	1	Bushing (Nylon) Begin Spec P
	323-1110	1	30 Amp, 250 Volt	23	308-0140	1	Switch, Toggle (On-Off)
8	305-0235	1	Rectifier				10 Amp/15 Amp - Begin Spec
9			Bracket, Rectifier	24	308-0479	1	Switch, Toggle (3 PDT)
	305-0256	1	Spec A through C				10/20 Amp - Begin Spec P
	305-0254	1	Begin Spec D	25	332-1571	2	Tab, Terminal - Begin Spec P
10	416-0014	2	Cable, Battery (15")	26			Breaker, Circuit
11			Terminal, Ground		320-0543	3	30 Amp - Begin Spec R
	332-0517	1	Spec A through C		320-0540	2	15 Amp - Begin Spec R
	332-0142	1	Begin Spec D	27	332-2139	1	Tab, Terminal (4 Terminal)
12	301-3585	1	Bracket, Mounting - Control				Begin Spec R
			Box - Begin Spec D	28	338-0646	1	Harness, Wiring - Begin Spec
13	301-3591	2	Spacer, Mounting - Switch -				
			Begin Spec D				

CONTRACTOR MODEL

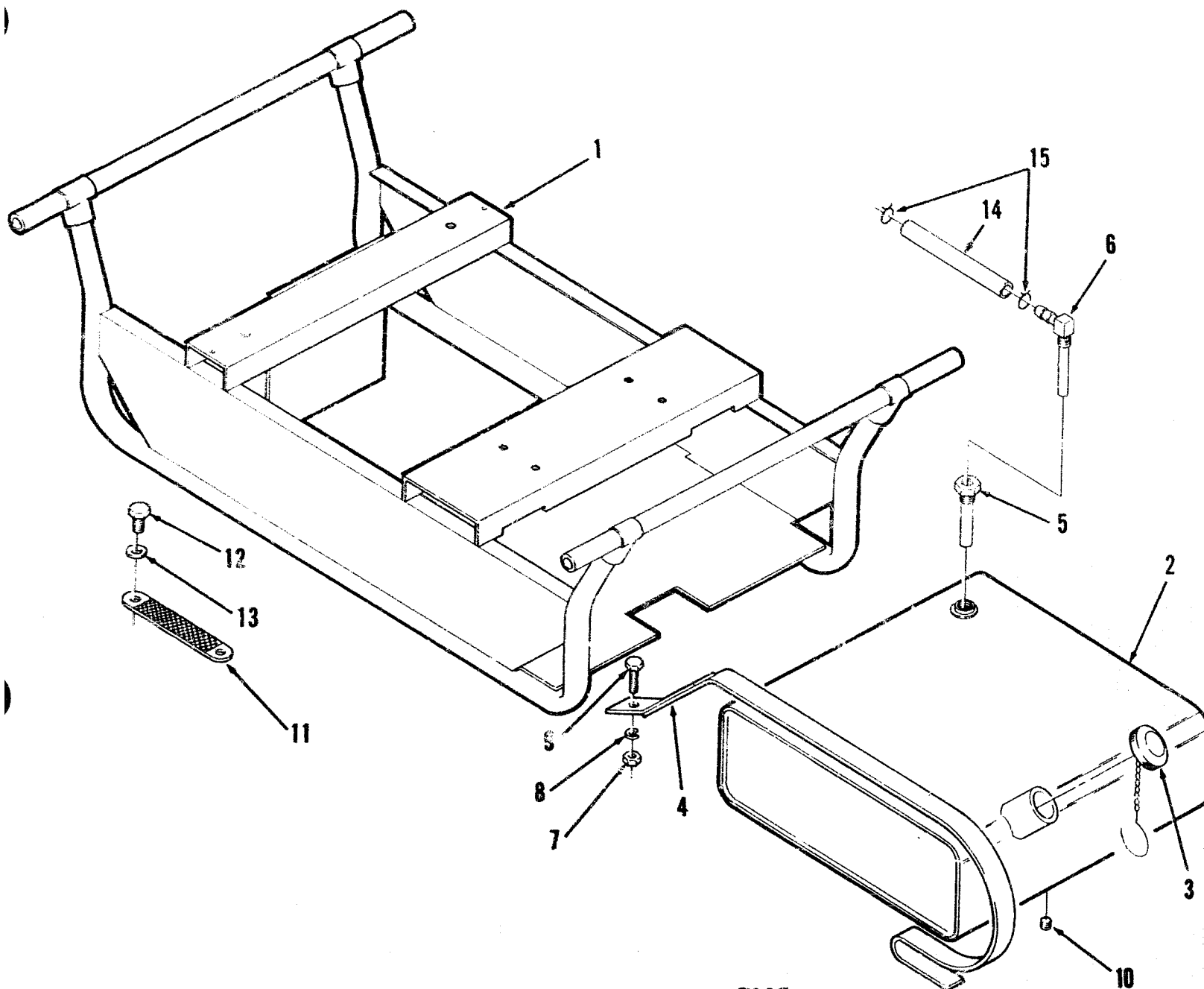
Carrying Frame (Spec A Through P)



REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-0930	1	Frame, Carrying	10	850-0040	2	Washer, Lock - Spring (1/4")
	403-2136	1	Spec A through M	11	501-0122	1	Line, Fuel - Tank to Pump
2	159-0690	1	Spec P		501-0472	1	Spec A Through N
3	159-0020	1	Tank, Fuel (Includes Cap)	12	416-0612	1	Spec P
4	505-0008	1	(7.35 Gallons)	13	816-0123	1	Frame, Battery Holddown
5	159-0695	1	Cap			2	Bolt (5/16-18 x 9") (Includes Nut)
6	149-0773	1	Plug, Slotted Head (1/8")	14	865-0007	2	Nut, Wing (5/16-18)
7	149-1892	1	Tube, Pickup	15	526-0041	2	Washer, Flat (5/16")
8	159-0692	2	Strainer	16	337-0056	1	Strap, Grounding
9	800-0009	2	Spec A through N		337-0418	1	Spec A Through N
			Spec P	17	800-0069	1	Spec P
			Band			1	Screw, Cap - Hex Head
			Screw, Cap - Hex Head			2	(7/16-14 x 3/4") - Spec P
			(1/4-20 x 1-1/2")	18	856-0012	2	Washer, Lock - EIT (7/16")
			Nut, Hex - Self-Locking				Spec P
			(1/4-20)				

CONTRACTOR MODEL

Carrying Frame (Begin Spec R)



700C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	403-2136	1	Frame, Carrying	10	505-0008	1	Plug, Slotted Head (1/8")
2	159-0690	1	Tank, Fuel (Includes Cap) (7.35 Gallons)	11	337-0418	1	Strap, Ground (Right Hand Generator Foot)
3	159-0020	1	Cap	12	800-0047	2	Screw, Cap - Hex Head (3/8-16 x 5/8")
4	159-0692	2	Band	13	856-0010	2	Washer, Lock - EIT (3/8")
5	159-0695	1	Tube, Pickup	14	503-0663	1	Line, Fuel - Flexible (7")
6	149-2208	1	Strainer	15	503-0301	2	Clamp, Fuel Line
7	870-0212	2	Nut, Self-Locking (1/4-20)				
8	850-0040	2	Washer, Lock - Spring (1/4")				
9	800-0008	2	Screw, Cap - Hex Head (1/4-20 x 1-1/4")				

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